

BOTTOM TRAWL SURVEY OF CRAB AND GROUNDFISH:
KODIAK, CHIGNIK, AND SOUTH PENINSULA MANAGEMENT AREAS, 2001

By

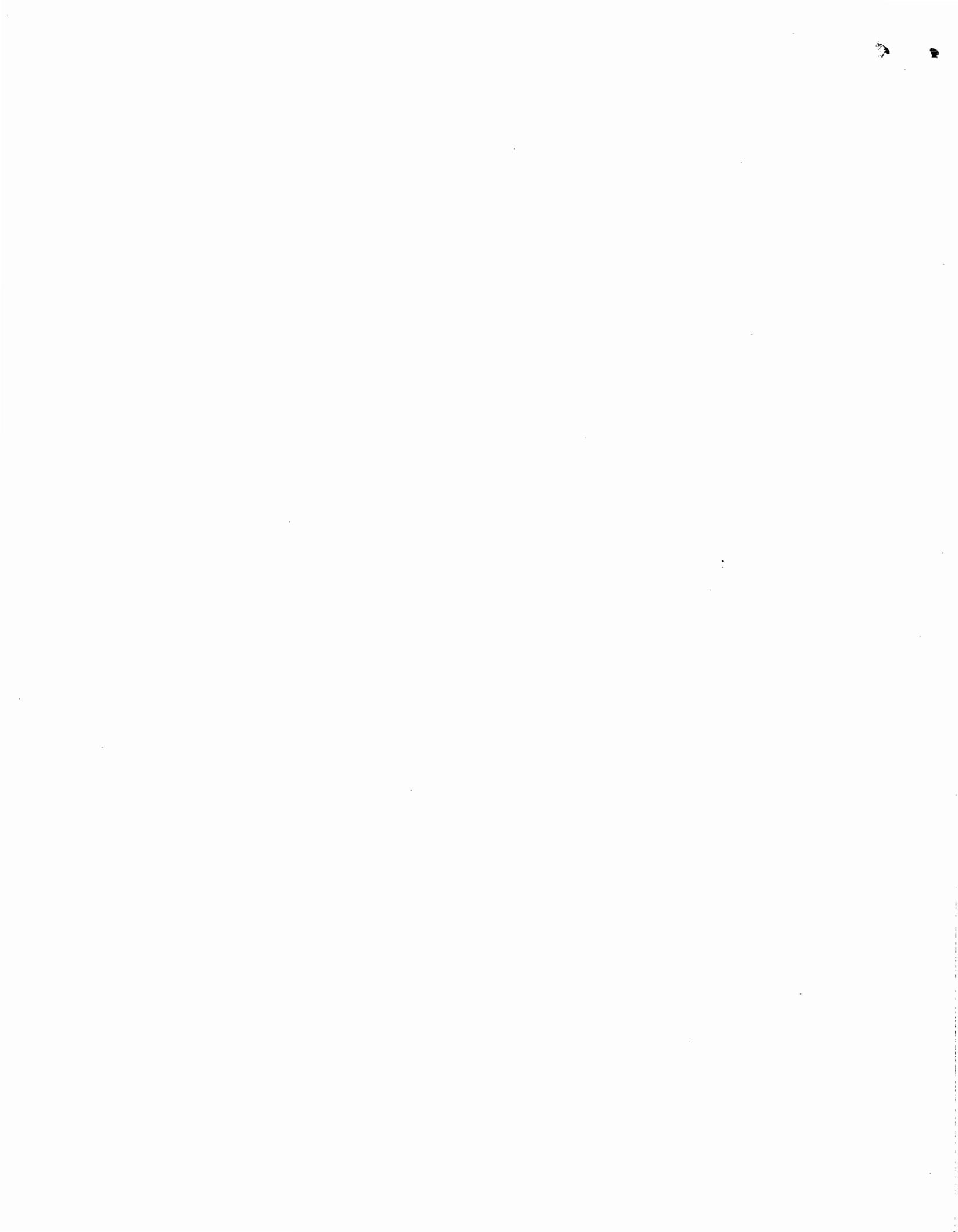
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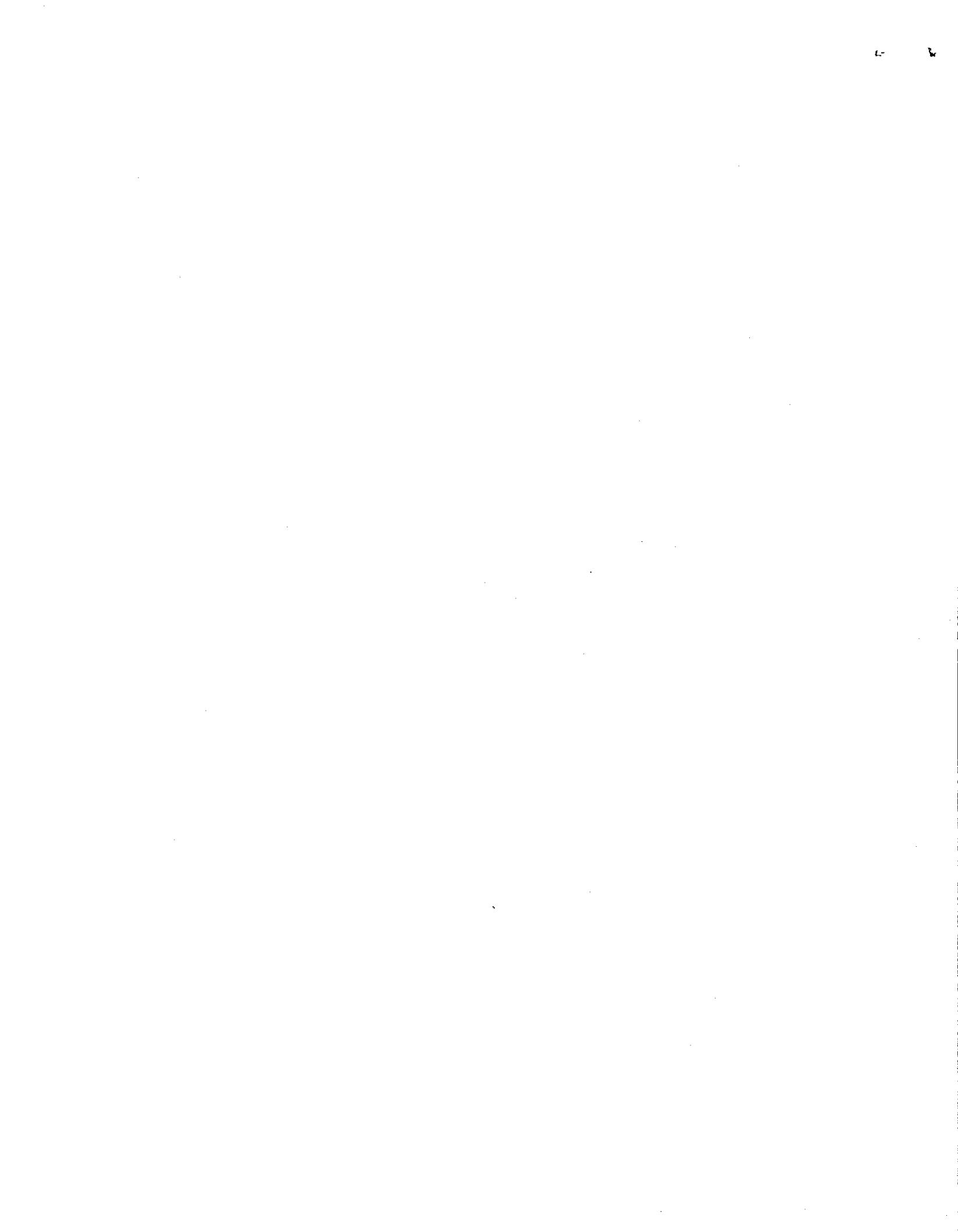
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ABSTRACT

A trawl survey of Kodiak, Chignik, and South Peninsula Management Areas was conducted from June through September 2001 completing 387 tows. Catch composition of each tow was determined and population levels of crabs and commercially important groundfish were quantified. The Northeast and Eastside Sections of Kodiak District Tanner crabs were above the minimum population level thresholds required to open a fishery. The Tanner crab and red king crab *Paralithodes camtschaticus* population levels in the Chignik and South Peninsula were below minimum levels required to open a commercial fishery. A survey of bitter crab syndrome in Alitak Bay showed a decrease in the population of infected crab from the previous year. Flathead sole, arrowtooth flounder, and walleye pollock dominated the groundfish catch all of the areas surveyed. The Pacific cod *Gadus macrocephalus* tagging program was used to identify migration and growth patterns.

KEY WORDS: crab, groundfish, *Paralithodes*, *Chionoecetes*, trawl survey, Kodiak, South Peninsula, Chignik, bitter crab syndrome, *Gadus macrocephalus*, weathervane scallops *Patinopecten caurinus*

INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) conducted bottom trawl surveys during 2001 focusing on inshore waters around Kodiak Island and along the Alaska Peninsula from Cape Douglas to False Pass (Figure 1). The survey area included the Kodiak and Alaska Peninsula Areas for red king crab *Paralithodes camtschaticus*, defined by 5 AAC 34.400 and 5 AAC 34.500, the Kodiak, Chignik, and South Peninsula Districts of the Westward Management Area for Tanner crab *Chionoecetes bairdi*, defined by 5 AAC 35.505 (ADF&G 2001a), and the Kodiak, Chignik, and South Peninsula Areas of the Westward Management Area for groundfish defined by 5 ACC 39.120 (ADF&G 2001b). Therefore this report refers to Tanner crab management units as Districts and king crab and groundfish management units as Areas.

ADF&G has conducted trawl surveys in the Westward Region since 1963. Early surveys targeted Long Island Bank (Reynolds and Powell 1964), Marmot Flats (McMullen 1967a), Portlock Bank (McMullen 1967b), Albatross Banks (McMullen 1968), Alitak and Kaguyak Bays (Kingsbury and James 1971) in the Kodiak District, and Chignik and Pavlof Bays in the Alaska Peninsula District (Colgate and Hicks 1983, Colgate 1984). Pot surveys were used for crab stock assessment starting in 1971 with the last pot survey in 1987. Trawl surveys replaced pots for crab stock assessment, because they are faster and sample a wider range of crab sizes (Jackson 1990). Trawl surveys in the Eastern Aleutians began in 1990 and have continued on a triennial basis. Since 1988, between 287 and 423 hauls have been completed annually during the Westward Region trawl surveys (Table 1). In recent years, the trawl survey has become increasingly important for groundfish assessment.

Tanner crab fisheries have been previously closed in Kodiak, South Peninsula, and Chignik Districts due to low population abundance since the 1994. In 1999, ADF&G developed a new Tanner crab management harvest strategy that set minimum threshold population levels for reopening these areas to commercial fishing and brought Tanner crab management into compliance with Alaska Board of Fisheries (BOF) regulations on harvest strategies and management policies for the Chignik and South Peninsula Districts and the eight sections within the Kodiak District (Urban et al. 1999). The threshold was defined as half the long-term average abundance of the number of mature males (carapace width ≥ 115 mm) (Urban and Vining 1999). Guideline harvest levels (GHL) are determined by estimating the number of molting mature males in a given district or section (Appendix A). Additional precautionary measures are applied to the strategy when stocks are rebuilding to ensure conservative management (Urban and Vining 1999). In 2001, Tanner crab reopened to fishing in the Northeast and Eastside Sections of Kodiak.

The objectives of the crab and groundfish survey were to estimate the abundance of Tanner and red king crab populations, to document the prevalence of bitter crab syndrome affecting Tanner crab stocks in Alitak Bay, and to sample the groundfish catch. Specific groundfish objectives were to determine species composition of the catch by haul and area, obtain length frequency distributions for commercially important groundfish, and tag Pacific cod *Gadus macrocephalus*.

In addition to these objectives, we continued the study of Tanner crab chela heights in the Marmot Bay area, continued to differentiate rock sole *Lepidopsetta* sp. into northern and southern species (Orr and Matarese, *in press*), and incorporated weathervane scallop sampling into the survey. Also, collections of walleye pollock *Theragra chalcogramma* otoliths for the National Marine Fisheries

Service (NMFS) were taken to determine what portion of the population was available to the survey. This report documents and summarizes the catch composition of crab and groundfish data from the trawl survey. An explanation of special technical terms used in this report is presented in Appendix A.

METHODS

Trawl Description and Procedures

The 27.4 m ADF&G research vessel *Resolution* was used to survey areas of known king and Tanner crab habitat. One tow was made at each station. Eight additional stations originating with the Marmot seasonal survey in 1998 were incorporated into the regular stock assessment of crab and groundfish.

The 400-mesh eastern otter trawl net used in the survey was designed to sweep a 12.2 m path. The net was constructed with 10.2 cm stretch mesh at the mouth, 8.9 cm stretch mesh in the body, and the codend was lined with 3.2 cm stretch mesh liner. This net had a 21.3 m headrope with 18 floats, 20.3 cm in diameter. The footrope was 29.0 m long with no roller gear or tickler chain. The footrope was weighted with a 1.0 cm chain attached every 25.4 cm to ensure that the footrope tended bottom. The dandylines were 45.7 m long, each consisting of an 18.3 m section of 1.5 cm cable and a pair of 27.4 m sections of 1.3 cm cable, one attached to the top and the other to the bottom of each net wing. Astoria "V" type doors weighing 340 kg and measuring 1.5 m x 2.1 m were used.

Survey areas were divided into offshore stations approximately 9.2 km² and inshore bay areas were divided into 4.6 km² stations. Considerable variation in the sizes of some offshore and most inshore stations occurred due to coastline topography. Survey station areas for inshore stations are calculated from depths greater than 20 fathoms. At each station, the trawl was towed on the bottom at a speed of approximately 3.7 km per hour for 1.85 km. Tow length was determined from Global Positioning System (GPS) readings and the vessel captain estimated corrections for tows that were not straight. Irregular bottom type occasionally caused haul lengths to differ from 1.85 km. Trawl placement within stations was determined by depth contours and locations of trawlable substrate. All tows were made during daylight hours. Catches, location, tow distances, and related information were recorded. Quality of net performance was rated and repeat tows were done when necessary (Worton 2000c). Catches were standardized to kilograms per kilometer towed. A temperature data logger was attached to the headrope of the net and temperatures were recorded approximately 2 meters above the sea floor bottom for each tow.

The total weight of the catch from each tow was determined by weighing the full codend of the trawl with an electronic crane scale accurate to ± 2.0 kg. The entire haul was sorted for selected species, which were weighed (± 0.1 kg), counted, and measured when applicable (± 1.0 cm) (i.e., whole-haul sampling). The following species were whole-haul sampled: sablefish *Anoplopoma fimbria*, Pacific cod, walleye pollock, Pacific halibut *Hippoglossus stenolepis*, all rockfish *Sebastodes* and *Sebastolobus*, lingcod *Ophiodon elongatus*, giant Pacific octopus *Octopus dofleini*, salmon *Onchorhynchus*, weathervane scallops *Patinopecten caurinus*, *Bathyraja* sp., longnose skate *Raja*

rhina, big skate *Raja binoculata*, Dungeness crab *Cancer magister*, Tanner crab, king crab, snow crab *Chionoecetes opilio*, haircrab *Erimacrus isenbeckii*, box crab *Lopholithodes foraminatus*, spiny dogfish *Squalus acanthias*, Pacific sleeper shark *Somniosus pacificus*, salmon shark *Lamna ditropis*, and giant wrymouth *Cryptacanthodes giganteus*. A 1.5 m² splitting net was used to obtain a subsample of other species in the catch. The splitting net was tied into the sorting bin before the catch was dumped from the codend. It was then lifted so a subsample could be craned to the table for sorting and weighing.

The selected commercial finfish species, Tanner crabs, and red king crabs taken in the subsamples, and whole-haul samples were measured to provide size frequency distributions for each species. Measurements were entered into a polycorder and downloaded onto a computer, and weights were entered directly into a database allowing for better data quality control and increased data collection efficiency. Finfish were measured from snout to the fork or mid-point of the caudal fin. Skates were measured from the snout to the posterior notch on the wing. Sharks were measured from the snout to the tip of the caudal fin. Tanner crab carapace widths (CW) were measured inside the spines and were subsampled when their numbers exceeded 200 individuals per sex per haul. Red king crabs were measured for carapace length (CL) from the eye socket to medial posterior edge of the carapace. Crab widths outside the spines were checked for the legal status of Tanner and king crabs. Dungeness crabs were measured for CW and checked for legal status across the carapace anterior to and excluding the tenth anterolateral spine. Chela heights were taken from the widest point across each chela, from 100 Tanner crabs per haul in Marmot Bay. Clutch fullness of mature Tanner and king crabs was measured by examining for the presence of egg clutches and estimating the percent fullness to the closest 10%. Embryo development was noted by the presence or absence of eyed eggs. Crabs exhibiting signs of disease were noted. Twenty weathervane scallop shell heights were taken for each tow. Complete sampling instructions are detailed in Worton (2000c).

Hemolymph smears from thirty randomly selected Tanner crabs were prepared from each haul in Alitak Bay on the south end of Kodiak Island, where bitter crab syndrome is prevalent (Pearson and Myers 1992). Smears were stained with Baxter Dif-Quik™ stain and read using protocols established by the State of Alaska Pathology Laboratory. Thirty fields were examined under 100 power for each slide and rated either positive on a scale of 1 to 4 or negative. Percent prevalence of bitter crab in the sample area and the population of Alitak Bay Tanner crab infected by bitter crab was calculated and compared to previous years. We define prevalence as a proportion of crab with bitter crab syndrome from the total population estimate of that area.

Rock sole were differentiated into northern and southern species using characteristics defined by the National Marine Fisheries Service (Orr and Matarese, *in press*). Gill rakers in southern rock sole are more blunt and stout than for northern rock sole, with the raker counts 6-10 for southern rock sole and 10-14 for northern rock sole. For fish with a count of 10 rakers, blind side skin characteristics were used to distinguish species. Blind side skin on southern rock sole is more transparent, and the abdominal muscles clearly visible. Fish that could not be reliably speciated were recorded as unidentified rock sole.

A Pacific cod tagging program, initiated in 1997, was continued in 2001. The study objectives are used to determine migration and growth patterns and helps differentiate inshore and offshore populations. Only Pacific cod in good condition were tagged. Fluorescent spaghetti tags were inserted into the musculature of the fish, anterior to the dorsal fin. Length, tag number, and release

location were recorded prior to release. A collection of 600 walleye pollock otoliths was taken during the survey for NMFS. This is part of a study to sample the walleye pollock population available to this trawl survey.

King and Tanner Crab Population Estimation

Population estimates for king and Tanner crabs were derived from the trawl survey data using the area swept technique (Alverson and Pereyra 1969). Assuming a 12.2 m path, the area swept by the trawl in a 1-km tow is $1/82 \text{ km}^2$. Hence, the catch per tow can be converted to density estimate (number per square kilometer) by multiplying the number caught per kilometer by 82. The calculated density is multiplied by the area of the station to give an estimate of the station's population size. In stations where more than one tow was completed, due to poor net performance, the number caught per kilometer was calculated by combining the total catch in all hauls in the station and dividing by the total distance towed. Population estimates were computed for desired subsets of geographic or biological variables by summing estimates from the individual stations.

RESULTS AND DISCUSSION

Catch data recorded for each station included start position, average depth, date, bottom temperature, catch, and other information (Appendix B). The "other rockfish" category listed in Appendix B includes miscellaneous *Sebastes* and *Sebastolobus*. The "other roundfish" category includes poachers Agonidae, wolf-eels *Anarhichas orientalis*, lingcod, Pacific tomcod *Microgadus proximus*, Atka mackerel *Pleurogrammus monopterygius*, snailfish Cyclopteridae, eulachon *Thaleichthys pacificus*, capelin *Mallotus villosus*, giant wrymouth, prawnfish *Zaprora silenus*, and pricklebacks Stichaeidae. The "other flatfish" category includes English sole *Parophrys vetulus*, sand sole *Psettidichthys melanostictus*, and butter sole *Isopsetta isolepis*. The "other elasmobranchs" category includes sharks and the "other invertebrates" category includes snails, jellyfish, sea pens, sea anemones, non-commercial crabs, nudibranchs, starfish, sea urchins, sea cucumbers, sponges, tunicates, and brachiopods.

Kodiak

The Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak District were surveyed from June 18 to July 15 with 161 tows completed (haul numbers 1-161). The Westside and North Mainland Sections were surveyed from August 14 to September 4 and 61 tows were completed (haul numbers 292-352). The area used in the Kodiak crab population estimates was $10,867.9 \text{ km}^2$ (Appendix C). The locations of all Kodiak District tows are shown in Appendices D.1-D.8.

The 2001 survey captured a total of 72,527 male Tanner crabs with a mean size of 70.8 mm CW and 61,586 female Tanner crabs with mean size of 59.0 mm CW (Figure 2). Tanner crabs were captured in 96% of all tows, with catches ranging from 1 to 17,554 crabs per haul. The highest density of Tanner crabs was found in Ugak Bay, station UGB, at 13,138 crabs per kilometer towed

(Figure 3). Newshell crabs comprised 89% (64,600) of the total male Tanner crabs captured in the Kodiak survey (Table 2).

Population estimates for Tanner crabs were derived for most of the commercial fishing sections described in the ADF&G commercial shellfish regulations (Appendix E). The estimated population and the shell condition of male Tanner crabs in sections of the Kodiak District are shown in Figures 4 and 5. The 2001 Tanner crab population estimates were the highest on record since the trawl survey began in the late 1980's. The Kodiak District Tanner crab population in the survey area was estimated at 175.9 million crabs, an increase from the 2000 estimate of 72.7 million crabs (Table 3), with prerecruit males <70 mm CW making up 35% of the total male population estimate (Figure 6).

The population of legal Tanner crabs in the Kodiak District was estimated to be 2.5 million crabs, declining slightly from the 2000 estimate of 2.6 million crabs. The 2001 abundance of legal males is less than population estimates from the 1987-1991 surveys (Table 3). The Eastside Section had the largest estimated population of legal crabs (1.3 million). Based on the Tanner crab management plan (5 ACC 35.507, ADF&G 2001), these estimates placed the Eastside and Northeast Districts above the threshold and satisfied the criteria for opening the Tanner crab fishery.

Egg clutches of 3,545 mature female Tanner crabs from the Kodiak District were examined (Figure 7). Fifty-seven percent of all mature females were primiparous, an increase from 53% in 2000 (Worton 2000b). Of mature females, 35% had clutches of 80% fullness or greater, an increase from 32% in 2000.

Red king crabs were captured in 8.6% of tows for a total 351 males and 354 females. Catches ranged from 1 to 342 animals per haul, with the greatest number found in Alitak Bay (Figure 8). The mean size for males was 109.0 mm CL and 108.4 mm CL for females. The majority of crabs were immature. Approximately 56% of the adult female king crabs had clutches of $\geq 80\%$ fullness (Figure 7).

The Kodiak red king crab population remains at historic low population levels with no commercial fishing since 1983. Population estimates were derived for the main commercial fishing Areas by size and sex categories (Appendix F). The Kodiak red king crab population was estimated to be 713,249 animals, an increase from 188,026 animals in the 2000 survey (Appendix F, Worton 2000b). The total estimated number of legal males increased in 2001 to 73,792 crabs, with increases seen in all sizes of sublegal males and females (Figure 9).

The average weight of fish and invertebrates from all Kodiak Area hauls was 573 kg per kilometer towed. Species composition from each Kodiak Area haul is presented in Appendix B. Arrowtooth flounder (32.5%) was the most relatively abundant species by weight encountered, followed by flathead sole (20.0%), and walleye pollock (8.7%; Table 4). These species were also the most abundant species in past surveys (Worton and Urban 1999, Worton 2000a, Worton 2000b).

Length measurements of 37,772 fish of 37 species were taken during the Kodiak Area bottom trawl survey and combined by bays (Appendices G.1-G.22). The highest densities of groundfish were found at inshore stations. Catches of selected groundfish are plotted by haul in Figures 10 and 11.

South Peninsula and Chignik

The South Peninsula and Chignik Districts were surveyed from July 25 through August 15, with 130 hauls successfully completed. There were 94 hauls in the South Peninsula District (haul numbers 162-255; Appendices D.9-D.12) and 36 hauls in the Chignik District (haul numbers 256-291; Appendices D.12-D.13). The area used for crab population estimation totaled 3,255 km² in the South Peninsula District and 1,053 km² in the Chignik District (Appendix C).

The 2001 survey trawls captured 10,275 Tanner crabs in the South Peninsula District, with the number per tow ranging from 1 to 945 Tanner crabs and the highest density found at station BAA in Balboa Bay (510.8 crabs per km towed; Figure 12). The mean size of Tanner crabs in the South Peninsula was 71.2 mm CW for males and 57.2 mm CW for females (Figure 2). Figures 13 and 14 show size frequency and shell condition by area for the estimated male Tanner crab population.

Population estimates were derived for each sex-size category of crabs by fishing area (Appendix H). The Tanner crab population in the surveyed portion of the South Peninsula District was estimated to be 14.3 million crabs (Table 5), an increase from the 2000 survey estimate of 13.2 million crabs (Worton 2000b). The increase in the population estimate of Tanner crab was largely due to the increase in sublegal males <91 mm from 2000 (Table 5 and Figure 15). The population estimate of legal crabs decreased to 0.50 million crabs in 2001 from 0.87 million crab in 2000. There was no commercial Tanner crab fishery in 2001 because the estimates did not exceed the threshold levels for the South Peninsula (5 AAC 35.507, ADF&G 2001).

The 2001 Chignik bottom trawl survey captured 11,232 Tanner crabs with catches ranging from 1 to 4,529 Tanner crabs per tow. Chignik Bay continues to show the highest densities of Tanner crabs (3060.5 crabs per km towed at station 4262; Figure 12). The mean size of Tanner crabs was 79.5 mm CW for males and 65.4 mm CW for females (Figure 2). Newshell male crabs accounted for 95% (6,693) of the total male Tanner crabs captured in the Chignik survey (Table 2; Figures 16 and 17).

Population estimates were derived for each sex-size category of Tanner crabs by fishing area (Appendix I). The 2001 Chignik Tanner crab population was estimated at 12.7 million crabs, a decrease from the 2000 estimate of 15.0 million crabs. Only sublegal male crabs 70-144 mm showed increases from 2000 (Table 5 and Figure 18). The commercial Tanner crab fishery did not open in the Chignik District during the 2001 season because threshold levels for a fishery based on the Tanner crab harvest strategy (5 AAC 35.507, ADF&G 2001) were not met.

The estimated number of female Tanner crabs captured from both the South Peninsula and Chignik Districts decreased from 2000 (Table 5, Worton 2000b). Egg clutches of 80% fullness or greater were found in 48% of the 486 adult female Tanner crabs captured in the South Peninsula District and in 44% of the 501 adult females in the Chignik District (Figure 19).

The red king crab population in the Alaska Peninsula Area remains at historic low levels with the 2001 population estimated at 43,509 crabs (Appendix J). The majority of the red king crabs were found in Pavlof Bay (Figure 8). A total of 37 male and 27 female red king crabs were captured, with mean sizes of 144.7 mm CL and 118.9 mm CL, respectively. Forty-seven percent of all females were mature with clutches.

The average haul weight of fish and invertebrates from all Alaska Peninsula hauls was 739 kg per kilometer towed. Species composition of each haul is presented in Appendix B. Walleye pollock (24.5%), flathead sole (23.7%), and arrowtooth flounder (19.0%) continue to be the most abundant species captured in the survey (Table 6).

Length measurements were taken from 25,766 fish representing 26 groundfish species found in the Alaska Peninsula Area (Appendices K.1-K.12). Morzhovoi and Pavlof Bays had the highest densities of groundfish in the Alaska Peninsula Area in 2001 (Figures 20 and 21).

Prevalence of Bitter Crab Syndrome

Blood smears were taken from 447 Tanner crabs in Alitak Bay in 2001 (Table 7). Bitter crab syndrome prevalence rates have ranged from 4.7% to 18.1% over the past 10 years; prevalence in 2001 was 3.7% (Table 7). The population of infected crab was estimated to be 445,855 crabs in 2001, an increase from 2000 (Table 8).

Pacific Cod Tagging Study

During the 2001 trawl survey, 1,165 Pacific cod were tagged and released. Only fish that were in good condition were tagged. Fish that had distended eyes, stomachs, or were lethargic were not tagged. The majority of the Pacific cod tagged were in the Kodiak Area (62%). Release locations for Kodiak and the Alaska Peninsula are shown in Figure 22.

Weathervane Scallop Sampling

The 2001 survey was the second year that shell height measurements from weathervane scallops were collected. Seventy-nine percent of the scallops came from the Kodiak Area. The 2,420 scallops sampled averaged 143.5 mm in height, a slight decrease from 2000 (144.3 mm).

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Table 1. Location and number of hauls in the Westward Region trawl survey, 1988-2001.

Year	Kodiak	Chignik	South Peninsula	Eastern Aleutian	TOTAL
1988	217	0	108	0	325
1989	221	35	132	0	388
1990	217	37	123	46	423
1991	228	33	117	41	419
1992	209	29	114	0	352
1993	231	35	111	0	377
1994	200	34	122	44	400
1995	218	31	0	38	287
1996	223	27	122	0	372
1997	218	34	116	0	368
1998	219	35	93	0	347
1999	231	36	93	39	399
2000	221	37	94	35	387
2001	222	36	94	0	352

Table 2. Number of male red king and Tanner crabs by shell condition and cohort captured in the 2001 Westward Region trawl survey.

Cohort	Definition	SHELL CONDITION				Total
		soft-shell	new-shell	old-shell	very old	
Kodiak red king crab						
Prerecruit IV	< 95 mm	0	175	0	0	175
Prerecruit III	95 - 112 mm	1	50	0	0	51
Prerecruit II	113 - 130 mm	2	21	0	0	23
Prerecruit I	>130 mm and sublegal	1	16	0	0	17
Recruit	<164 mm and legal new-shell	0	45	--	--	45
Postrecruit	>164 mm or legal and not new-shell	0	21	17	8	46
		4	328	17	8	357
Alaska Peninsula red king crab						
Prerecruit IV	< 79 mm	0	2	0	0	2
Prerecruit III	79 - 95 mm	0	2	0	0	2
Prerecruit II	96 - 115 mm	0	3	0	0	3
Prerecruit I	>115 mm and sublegal	0	1	1	2	4
Recruit	<152 mm and legal new-shell	0	3	--	--	3
Postrecruit	>152 mm or legal and not new-shell	0	9	4	10	23
		0	20	5	12	37
Kodiak Tanner crab						
Prerecruit IV	< 70 mm	4,447	43,342	6	31	47,826
Prerecruit III	70 - 91 mm	257	13,687	78	10	14,032
Prerecruit II	92 - 114 mm	124	5,010	185	112	5,431
Prerecruit I	>115 mm and sublegal	35	1,925	422	806	3,188
Recruit	<165 mm and legal new-shell	8	616	--	--	624
Postrecruit	>165 mm or legal and not new-shell	83	20	593	730	1,426
		4,954	64,600	1,284	1,689	72,527
Mature	>114	43	2,624	1,015	1,537	5,219
Chignik Tanner crab						
Prerecruit IV	< 70 mm	92	1,869	1	0	1,962
Prerecruit III	70 - 91 mm	6	3,157	1	1	3,165
Prerecruit II	92 - 114 mm	3	935	19	13	970
Prerecruit I	>115 mm and sublegal	1	457	23	87	568
Recruit	<165 mm and legal new-shell	0	273	--	--	273
Postrecruit	>165 mm or legal and not new-shell	4	2	56	36	98
		106	6,693	100	137	7,036
Mature	>114	1	734	79	123	937

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Table 2. (Page 2 of 2)

Cohort	Definition	SHELL CONDITION				Total
		soft-shell	new-shell	old-shell	very old	
South Peninsula Tanner crab						
Prerecruit IV	< 70 mm	174	3,081	0	0	3,255
Prerecruit III	70 - 91 mm	21	1051	3	1	1076
Prerecruit II	92 - 114 mm	3	935	19	13	970
Prerecruit I	≥115 mm and sublegal	3	311	72	126	512
Recruit	<165 mm and legal new-shell	0	273	--	--	273
Postrecruit	≥165 mm or legal and not new-shell	15	0	48	62	125
		216	5,651	142	202	6,211
Mature	>114	3	599	120	188	910

Table 3. Tanner crab population estimates from trawl surveys in the Kodiak District, 1987-2001.

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
Northeast													
1987	461,089	1,135,422	1,596,511	352,860	248,415	326,506	493,916	101,484	197,865	33,038	332,387	1,754,084	3,350,595
1988	2,643,594	674,490	3,318,084	2,495,836	395,350	545,140	685,327	384,565	23,104	20,977	428,647	4,550,299	7,868,383
1989	5,481,792	5,654,266	11,136,058	5,127,986	1,546,105	2,165,369	2,319,049	1,409,193	133,905	269,859	1,812,957	12,971,466	24,107,524
1990	1,812,656	3,140,834	4,953,490	1,446,757	1,482,180	1,142,711	1,024,535	510,407	93,031	101,879	705,317	5,801,500	10,754,990
1991	4,385,849	2,055,075	6,440,924	3,651,597	1,501,747	1,330,396	1,080,017	424,636	25,367	52,117	502,121	8,065,877	14,506,801
1992	2,013,074	1,365,357	3,378,431	1,586,874	1,225,453	929,682	793,749	209,337	15,516	7,070	231,922	4,767,681	8,146,112
1993	2,273,819	1,116,830	3,390,649	2,224,926	435,614	581,625	637,663	263,095	31,759	16,787	311,640	4,191,469	7,582,118
1994	602,256	1,227,010	1,829,266	627,897	170,908	255,845	455,371	102,589	98,082	2,401	203,072	1,713,093	3,542,359
1995	6,481,040	1,423,393	7,904,433	6,459,818	1,453,343	326,713	372,625	10,279	132,191	0	142,470	8,754,969	16,659,402
1996	2,132,659	2,508,696	4,641,355	1,766,596	2,544,865	1,190,131	427,287	30,485	54,026	1,603	86,114	6,014,993	10,656,348
1997	423,217	1,021,369	1,444,586	523,906	935,670	1,120,040	604,140	48,509	24,329	0	72,838	3,256,593	4,701,179
1998	1,716,808	3,313,210	5,030,018	1,285,328	2,361,636	2,195,617	2,012,063	393,528	44,144	12,334	450,006	8,304,650	13,334,668
1999	2,318,006	1,185,538	3,503,544	2,698,301	337,897	663,825	840,238	195,650	128,061	2,264	325,975	4,866,236	8,369,780
2000	8,092,502	2,492,158	10,584,660	7,697,742	2,017,128	982,372	1,076,359	307,896	260,546	12,240	580,682	12,354,283	22,938,943
2001	15,993,416	7,221,029	23,214,445	15,242,185	5,647,808	3,633,872	1,988,775	169,802	278,319	2,963	451,084	26,963,724	50,178,169
Eastside													
1987	5,476,413	3,930,451	9,406,864	5,750,053	609,468	514,257	1,202,144	149,925	299,091	89,925	538,941	8,614,863	18,021,727
1988	2,083,954	820,032	2,903,986	1,616,718	443,776	627,028	732,705	298,165	100,786	1,914	400,865	3,821,092	6,725,078
1989	2,393,419	3,821,312	6,214,731	2,029,181	1,567,590	1,640,007	1,285,700	799,441	270,769	29,333	1,099,543	7,622,021	13,836,752
1990	1,547,033	10,045,389	11,592,422	1,299,698	679,016	2,019,193	4,059,072	788,369	162,670	60,418	1,011,457	9,068,436	20,660,858
1991	1,490,845	3,677,868	5,168,713	1,207,670	289,090	655,547	2,669,044	3,016,121	494,482	38,622	3,549,225	8,370,576	13,539,289
1992	1,292,574	1,963,566	3,256,140	1,612,556	328,625	472,486	1,584,166	460,988	280,962	64,984	806,934	4,804,767	8,060,907
1993	1,723,641	1,504,592	3,228,233	1,362,714	252,485	406,367	1,003,469	108,462	382,993	18,760	510,215	3,535,250	6,763,483
1994	1,768,539	571,130	2,339,669	1,311,715	706,286	465,077	572,892	28,420	141,209	2,837	172,466	3,228,436	5,568,105
1995	3,796,916	505,420	4,302,336	3,326,873	594,529	456,566	411,403	24,858	87,815	2,394	115,067	4,904,438	9,206,774
1996	2,099,145	916,539	3,015,684	2,187,039	705,077	609,875	849,485	107,556	179,487	14,538	301,581	4,653,057	7,668,741
1997	802,758	652,061	1,454,819	772,755	678,462	724,637	708,745	118,243	104,661	15,679	238,583	3,123,181	4,578,000
1998	4,398,250	2,432,231	6,830,481	3,861,520	1,771,144	2,732,362	2,244,142	295,638	441,227	86,566	823,431	11,432,599	18,263,081
1999	6,310,010	1,600,247	7,910,257	5,119,000	408,238	1,087,114	2,085,986	382,318	799,959	120,985	1,303,262	10,003,600	17,913,857
2000	5,311,801	3,653,392	8,965,193	5,112,258	1,531,686	721,880	1,832,670	450,661	876,829	76,251	1,403,741	10,602,235	19,567,428
2001	28,121,728	3,038,255	31,159,983	22,626,525	3,242,716	1,457,288	1,194,066	72,121	1,113,227	87,196	1,272,544	29,793,139	60,953,122

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Table 3. (Page 2 of 4)

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>165			
Southeast													
1987	2,379,119	894,205	3,273,324	2,044,847	413,335	337,537	875,142	480,004	88,816	2,841	571,661	4,242,522	7,515,846
1988	243,200	314,486	557,686	188,394	221,880	607,570	1,185,633	777,880	129,593	50,773	958,246	3,161,723	3,719,409
1989	922,092	424,847	1,346,939	694,841	140,444	246,215	564,215	175,593	70,553	9,739	255,885	1,901,600	3,248,539
1990	1,148,017	781,102	1,929,119	1,086,357	131,469	299,245	651,302	383,859	117,252	5,970	507,081	2,675,454	4,604,573
1991	4,650,523	919,633	5,570,156	4,448,179	425,927	270,594	367,736	173,532	37,162	7,382	218,076	5,730,512	11,300,668
1992	2,156,307	1,322,229	3,478,536	1,648,095	688,608	443,849	587,767	33,246	139,404	10,076	182,726	3,551,045	7,029,581
1993	3,893,506	563,806	4,457,312	3,625,310	248,343	430,013	403,299	27,357	111,011	8,453	146,821	4,853,786	9,311,098
1994	112,692	222,890	335,582	88,247	28,663	87,918	474,048	108,208	54,865	4,252	167,325	846,201	1,181,783
1995	2,728,372	110,416	2,838,788	2,425,953	15,058	28,566	82,912	76,922	47,721	2,370	127,013	2,679,502	5,518,290
1996	2,567,943	141,849	2,709,792	2,274,742	486,210	112,033	124,446	55,489	68,179	7,990	131,658	3,129,089	5,838,881
1997	460,018	141,758	601,775	361,124	206,538	114,928	45,616	3,134	45,000	1,337	49,471	777,676	1,379,451
1998	1,989,704	128,040	2,117,744	2,242,546	47,418	92,558	228,163	28,851	26,243	866	55,960	2,666,645	4,784,389
1999	3,582,504	160,235	3,742,739	3,736,209	99,398	96,118	196,109	127,718	66,630	8,583	202,931	4,330,765	8,073,504
2000	3,440,431	367,784	3,808,215	3,760,876	303,921	83,413	189,458	19,224	127,295	253	146,772	4,484,440	8,292,655
2001	9,488,305	2,951,287	12,439,592	9,581,995	2,259,657	347,865	323,336	48,356	226,017	13,947	288,320	12,801,173	25,240,765
Southwest													
1987	2,368,774	590,671	2,959,445	1,990,338	45,752	727,616	1,799,111	638,664	107,127	44,416	790,207	5,353,024	8,312,469
1988	191,219	225,135	416,354	168,051	16,405	63,339	591,313	1,370,943	61,725	76,170	1,508,838	2,347,946	2,764,300
1989	2,716,302	220,553	2,936,855	2,510,149	202,807	189,372	443,446	281,673	118,617	85,688	485,978	3,831,752	6,768,607
1990	3,527,315	1,383,437	4,910,752	2,635,176	1,259,988	709,183	704,467	53,127	59,552	11,567	124,246	5,433,060	10,343,812
1991	1,248,463	262,105	1,510,568	1,020,587	219,284	403,480	553,335	97,159	33,952	3,185	134,296	2,330,982	3,841,550
1992	461,617	212,484	674,101	455,293	153,648	320,046	236,226	296,449	58,330	5,803	360,582	1,525,795	2,199,896
1993	6,656,829	244,881	6,901,710	6,173,566	505,031	182,384	392,985	251,151	69,760	13,352	334,263	7,588,229	14,489,939
1994	205,702	120,561	326,263	131,884	70,630	60,597	145,516	129,013	23,087	7,429	159,529	568,156	894,419
1995	151,984	91,201	243,185	137,702	57,628	109,653	124,067	33,631	48,012	0	81,643	510,693	753,878
1996	348,245	44,722	392,967	326,522	98,585	162,621	240,133	36,057	74,458	1,571	112,086	939,947	1,332,914
1997	265,172	66,131	331,303	255,708	102,022	82,313	185,338	124,784	88,079	3,170	216,033	841,414	1,172,717
1998	236,303	34,231	270,534	232,953	58,264	50,176	61,014	19,712	85,406	2,193	107,312	509,718	780,252
1999	816,972	30,112	847,084	844,138	56,872	45,036	176,080	33,257	119,806	4,314	157,377	1,279,503	2,126,587
2000	2,959,952	58,363	3,018,315	2,996,836	161,085	103,332	165,015	51,082	99,590	714	151,386	3,577,654	6,595,969
2001	9,326,226	285,620	9,611,846	6,753,883	3,232,580	248,556	176,608	93,598	46,287	1,972	141,857	10,553,484	20,165,330

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Table 3. (Page 3 of 4)

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>165			
Westside													
1987	2,541,394	1,526,443	4,067,837	1,243,848	2,401,608	1,149,549	1,302,877	835,177	46,421	50,537	932,135	7,030,017	11,097,854
1988	3,232,321	1,125,086	4,357,407	2,903,179	160,149	477,223	606,182	243,134	45,969	21,869	310,972	4,457,705	8,815,112
1989	8,655,122	1,185,882	9,841,004	7,125,499	1,387,997	651,689	739,127	373,683	71,456	32,282	477,421	10,381,733	20,222,737
1990	1,539,037	4,037,828	5,576,865	725,246	1,325,090	807,624	874,879	209,757	98,770	42,662	351,189	4,084,028	9,660,893
1991	188,063	564,038	752,101	130,079	138,641	480,619	440,221	35,631	22,320	4,335	62,286	1,251,846	2,003,947
1992	168,907	419,822	588,729	129,031	171,209	214,118	299,796	114,508	46,032	5,615	166,155	980,309	1,569,038
1993	397,675	587,678	985,353	266,121	161,469	153,721	292,347	56,918	114,132	8,001	179,051	1,052,709	2,038,062
1994	159,998	248,767	408,765	108,531	113,242	74,755	90,262	31,733	42,415	0	74,148	460,938	869,703
1995	169,581	419,442	589,023	108,716	165,389	162,040	136,931	15,092	89,628	2,203	106,923	679,999	1,269,022
1996	221,986	406,957	628,943	104,838	263,794	293,384	226,226	36,717	99,630	469	136,816	1,025,058	1,654,001
1997	221,626	679,270	900,896	83,887	293,572	424,991	330,268	70,487	62,404	2,605	135,497	1,268,215	2,169,111
1998	785,691	640,981	1,426,672	694,427	171,682	292,985	238,698	38,125	53,772	3,008	94,905	1,492,698	2,919,370
1999	720,955	301,742	1,022,697	412,434	308,618	255,995	223,631	58,067	102,486	9,444	169,997	1,370,675	2,393,372
2000	836,978	700,065	1,537,043	524,055	449,696	463,886	271,170	101,461	77,373	12,525	191,359	1,900,166	3,437,209
2001	1,769,528	836,974	2,606,502	1,401,945	660,806	397,682	442,327	84,184	85,335	11,243	180,762	3,083,522	5,690,024
North Mainland													
1987	668,509	2,267,682	2,936,191	622,331	926,344	2,693,481	2,761,800	498,657	101,469	39,646	639,772	7,643,728	10,579,919
1988	3,055,286	861,060	3,916,346	2,592,371	131,758	424,485	1,227,352	922,762	82,755	32,415	1,037,932	5,413,898	9,330,244
1989	4,557,775	1,263,559	5,821,334	4,670,560	251,950	289,575	1,150,687	417,410	105,261	165,459	688,130	7,050,902	12,872,236
1990	7,046,141	3,301,573	10,347,714	5,970,049	2,313,040	806,067	1,470,971	148,847	115,216	36,289	300,352	10,860,479	21,208,193
1991	760,801	1,128,212	1,889,013	605,036	606,408	537,513	948,691	61,666	121,712	4,747	188,125	2,885,773	4,774,786
1992	2,379,002	898,078	3,277,080	2,279,142	224,065	392,813	753,649	108,416	70,078	14,613	193,107	3,842,776	7,119,856
1993	3,812,333	1,022,423	4,834,756	3,215,642	150,137	418,016	820,819	157,189	146,364	36,468	340,021	4,944,635	9,779,391
1994	3,023,459	536,322	3,559,781	2,228,789	554,325	232,786	360,218	143,776	116,170	58,652	318,598	3,694,716	7,254,497
1995	626,581	246,765	873,346	676,801	133,803	61,118	151,268	38,078	49,671	18,653	106,402	1,129,392	2,002,738
1996	4,440,244	390,477	4,830,721	4,282,612	340,128	215,935	341,473	34,667	164,161	21,682	220,510	5,400,658	10,231,379
1997	2,395,876	263,513	2,659,389	2,345,312	505,068	343,651	654,116	52,567	186,794	8,054	247,415	4,095,561	6,754,950
1998	3,768,973	228,208	3,997,182	3,527,325	316,626	274,495	293,841	0	129,230	15,548	144,779	4,557,067	8,554,248
1999	3,978,558	249,442	4,228,000	4,095,930	513,789	193,813	560,732	46,816	102,885	0	149,701	5,513,965	9,741,965
2000	4,426,732	535,607	4,962,339	4,544,305	1,373,199	537,535	345,613	66,809	57,974	2,151	126,934	6,927,586	11,889,925
2001	5,571,966	581,737	6,153,703	5,958,909	493,796	449,541	398,103	21,432	174,614	5,736	201,782	7,502,131	13,655,834

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Table 3. (Page 4 of 4)

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	165 mm			
GRAND TOTAL													
1987	13,906,688	10,409,430	24,316,118	12,042,252	4,656,314	5,786,921	8,438,786	2,703,910	840,789	260,402	3,805,101	34,729,374	59,045,492
1988	11,449,574	4,020,290	15,469,864	9,964,549	1,369,319	2,744,783	5,028,512	3,997,449	443,932	204,119	4,645,500	23,752,663	39,222,527
1989	24,726,502	12,570,419	37,296,921	22,158,216	5,096,893	5,182,227	6,502,224	3,456,993	770,561	592,360	4,819,914	43,759,474	81,056,395
1990	16,620,199	22,690,162	39,310,361	13,163,283	7,190,782	5,784,022	8,785,225	2,094,366	646,492	258,785	2,999,643	37,922,955	77,233,316
1991	12,724,544	8,606,932	21,331,476	11,063,149	3,181,096	3,678,149	6,059,042	3,808,745	734,995	110,388	4,654,128	28,635,564	49,967,040
1992	8,671,479	6,181,536	14,853,015	7,710,991	2,791,607	2,772,995	4,255,353	1,222,944	1,220,642	108,160	2,551,746	20,082,692	34,935,707
1993	18,757,803	5,040,209	23,798,012	16,868,279	1,753,109	2,172,126	3,550,581	864,271	856,019	101,822	1,822,112	26,166,207	49,964,219
1994	5,876,645	2,929,680	8,806,325	4,497,063	1,634,055	1,176,978	2,098,307	543,740	475,828	75,571	1,095,139	10,501,542	19,307,867
1995	13,954,474	2,796,636	16,751,110	13,135,863	2,419,749	1,144,656	1,279,207	198,861	455,038	25,620	679,519	18,658,994	35,410,104
1996	11,810,222	4,409,239	16,219,461	10,942,349	4,438,659	2,583,980	2,209,049	300,970	639,942	47,854	988,766	21,162,803	37,382,264
1997	4,568,667	2,824,101	7,392,768	4,342,691	2,721,331	2,810,559	2,528,223	417,724	511,267	30,844	959,835	13,362,640	20,755,408
1998	12,895,729	6,776,901	19,672,630	11,844,098	4,726,771	5,638,194	5,077,922	775,854	780,022	120,516	1,676,393	28,963,378	48,636,008
1999	17,727,005	3,527,316	21,254,321	16,906,012	1,724,812	2,341,901	4,082,776	843,826	1,319,827	145,590	2,309,243	27,364,744	48,619,065
2000	25,068,396	7,807,369	32,875,765	24,636,072	5,836,715	2,892,418	3,880,285	997,133	1,499,607	104,134	2,600,874	39,846,364	72,722,129
2001	70,271,169	14,914,902	85,186,071	61,565,442	15,537,363	6,534,804	4,523,215	489,493	1,923,799	123,057	2,536,349	90,697,173	175,883,244

Table 4. Relative abundance by weight of the top 20 species groups in the Kodiak Area trawl survey, 2001.

Rank	Common name	Species name	% of catch by weight
1	Arrowtooth flounder	<i>Atheresthes stomias</i>	32.5
2	Flathead sole	<i>Hippoglossoides elassodon</i>	20.0
3	Walleye pollock	<i>Theragra chalcogramma</i>	8.7
4	Tanner crab	<i>Chionoecetes bairdi</i>	5.7
5	Sunflower sea star	<i>Pycnopodia helianthoides</i>	5.4
6	Pacific halibut	<i>Hippoglossus stenolepis</i>	3.6
7	Pacific cod	<i>Gadus macrocephalus</i>	2.8
8	Yellowfin sole	<i>Pleuronectes aspera</i>	2.5
9	Big skate	<i>Raja binoculata</i>	2.0
10	Longnose skate	<i>Raja rhina</i>	1.4
11	Rex sole	<i>Glyptocephalus zachirus</i>	1.4
12	Alaska/Aleutian skates	<i>Bathyraja</i> spp.	1.1
13	Dover sole	<i>Microstomus pacificus</i>	1.0
14	Northern rock sole	<i>Lepidotsetta perarciata</i>	1.0
15	Butter sole	<i>Isopsetta bilineata</i>	1.0
16	Weathervane scallop	<i>Patinopecten cauinus</i>	0.9
17	Sea anemone	Order: Actiniaria	0.9
18	Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.7
19	Starry flounder	<i>Platichthys stellatus</i>	0.6
20	Alaska plaice	<i>Pleuronectes quadrituberculatus</i>	0.6
All others			6.1
			100.0

Table 5. Tanner crab population estimates from trawl surveys in the South Peninsula and Chignik Districts, 1988-2001.

Year	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit		Total Legal	Total Males	Total Crabs			
	Juvenile	Adult	Total	<70	70-91	92-114	>115	<165	>165								
SOUTH PENINSULA DISTRICT																	
Sanak Island																	
1989	1,007,287	116,393	1,123,680	1,087,034	23,924	31,519	64,368	6,836	0	0	6,836	1,213,681	2,337,361				
1990	544,525	102,533	647,058	412,210	80,760	52,532	22,785	0	0	0	0	568,287	1,215,345				
1991	448,105	27,532	475,637	461,396	30,380	34,178	0	0	0	0	0	525,954	1,001,591				
1992	344,623	41,013	385,636	270,952	42,912	45,760	3,798	0	0	0	0	363,422	749,058				
1993	337,216	19,132	356,348	260,565	30,577	37,408	9,998	0	0	0	0	338,548	694,896				
1994	87,847	69,011	156,858	112,055	13,413	18,801	19,823	0	0	0	0	164,092	320,950				
1996	579,289	134,287	713,576	433,898	53,476	29,469	36,368	0	0	0	0	553,211	1,266,787				
1997	104,890	53,408	158,298	79,644	75,563	38,236	17,180	0	0	0	0	210,623	368,921				
1998	287,241	401,487	688,728	389,587	81,490	125,691	63,941	0	0	0	0	660,709	1,349,437				
1999	88,145	94,727	182,872	55,776	5,043	44,697	20,518	0	0	0	0	126,035	308,907				
2000	606,606	185,506	792,112	563,172	59,648	94,142	32,780	0	2,522	0	2,522	752,264	1,544,376				
2001	914,269	131,632	1,045,901	790,961	56,567	82,328	116,972	5,043	0	0	5,043	1,051,871	2,097,772				
Morzhovoi Bay																	
1988	473,143	393,460	866,603	256,652	287,299	245,461	221,888	96,780	30,848	17,019	144,647	1,155,947	2,022,550				
1989	3,840,620	1,173,058	5,013,678	3,214,760	1,373,096	440,767	133,655	42,427	4,949	0	47,376	5,209,654	10,223,332				
1990	2,137,939	1,047,225	3,185,164	1,503,423	663,670	551,967	197,960	25,633	25,542	1,489	52,664	2,969,684	6,154,848				
1991	1,657,718	478,548	2,136,266	1,318,755	426,210	209,931	57,608	15,555	4,667	0	20,222	2,032,726	4,168,992				
1992	364,690	886,270	1,250,960	193,851	455,385	278,843	207,281	39,945	21,471	949	62,365	1,197,725	2,448,685				
1993	72,434	544,697	617,131	18,974	160,368	414,318	368,297	62,370	63,859	949	127,178	1,089,135	1,706,266				
1994	43,583	284,888	328,471	9,922	62,598	132,024	214,544	7,299	49,193	0	56,492	475,580	804,051				
1996	221,620	107,996	329,616	191,235	22,344	14,476	53,533	5,696	31,185	0	36,881	318,469	648,085				
1997	142,085	103,607	245,692	93,088	79,525	63,073	38,078	6,646	10,622	0	17,267	291,030	536,722				
1998	927,801	1,905,001	2,832,801	372,190	1,244,517	1,545,607	337,412	40,345	81,441	0	121,786	3,621,511	6,454,313				
1999	162,720	506,161	668,881	51,455	287,843	555,623	767,631	66,609	59,158	1,899	127,666	1,790,220	2,459,101				
2000	904,853	872,919	1,777,772	833,624	156,937	384,386	731,583	448,222	107,962	0	556,184	2,662,714	4,440,486				
2001	1,087,232	331,894	1,419,126	664,349	960,195	226,770	237,689	183,362	114,032	11,371	308,765	2,397,768	3,816,894				
Cold Bay/Belkofski																	
1988	263,424	311,506	574,930	133,813	222,565	234,339	220,235	88,143	32,649	8,520	129,312	940,264	1,515,194				
1989	465,622	55,256	520,878	408,728	54,811	29,720	16,589	3,881	488	0	4,369	514,217	1,035,095				
1990	1,819,773	553,714	2,373,487	1,536,289	526,568	276,381	224,763	88,021	51,348	4,548	143,917	2,707,918	5,081,405				
1991	601,571	588,961	1,190,532	668,699	135,225	223,859	374,770	74,553	110,621	161	185,335	1,587,888	2,778,420				
1992	177,787	174,384	352,171	95,544	110,096	97,452	142,607	39,898	39,104	1,721	80,723	526,422	878,593				
1993	100,302	269,850	370,152	68,373	87,201	156,298	137,850	35,907	18,608	434	54,949	504,671	874,823				
1994	96,033	220,312	316,345	28,880	54,379	64,115	75,642	27,345	10,266	1,258	38,869	261,885	578,230				

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Table 5. (Page 2 of 5)

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>115		<165	>165			
1996	339,068	15,337	354,405	266,412	62,717	40,124	30,565	24,165	2,530	201	26,896	426,714	781,119
1997	118,157	12,184	130,341	44,101	59,543	90,588	80,558	37,302	936	483	38,721	313,512	443,854
1998	374,298	149,169	523,467	116,355	270,327	322,268	168,190	49,039	17,619	5,616	72,274	949,414	1,472,882
1999	111,133	78,031	189,164	63,078	58,424	235,743	266,603	59,853	21,247	869	81,969	705,817	894,981
2000	453,965	220,395	674,361	548,118	105,008	264,499	297,586	181,329	16,470	2,811	200,610	1,415,824	2,090,183
2001	990,492	66,837	1,057,329	873,549	142,999	138,379	147,340	89,545	15,002	3,544	108,091	1,410,358	2,467,687
Pavlof/Volcano													
1988	438,378	879,351	1,317,729	351,825	213,743	527,769	473,115	211,734	88,807	79839	380,380	1,946,832	3,264,561
1989	1,193,787	1,898,744	3,092,531	752,840	448,297	374,030	447,775	121,787	80,943	17669	220,399	2,243,341	5,335,872
1990	1,138,250	2,110,361	3,248,611	823,545	574,445	631,345	345,196	62,129	125,646	18957	206,732	2,581,263	5,829,874
1991	440,000	549,233	989,233	398,020	76,496	276,907	273,133	38,822	89,006	3039	130,867	1,155,423	2,144,656
1992	206,620	387,633	594,253	96,109	162,427	150,644	164,303	32,774	52,064	0	84,838	658,321	1,252,574
1993	115,627	201,551	317,178	71,677	168,723	494,229	230,544	44,414	27,416	1925	73,755	1,038,928	1,356,106
1994	40,819	123,378	164,197	25,438	50,672	91,918	143,134	54,379	28,337	0	82,716	393,878	558,075
1996	391,494	55,285	446,779	367,493	40,122	31,041	52,307	14,841	9,517	992	25,350	516,313	963,092
1997	70,299	79,456	149,755	31,066	48,449	82,056	53,514	5,405	28,417	949	34,771	249,857	399,612
1998	107,725	176,994	284,719	33,533	150,682	314,198	381,821	8,180	51,664	0	59,843	940,078	1,224,796
1999	51,913	91,936	143,849	44,539	39,952	97,486	128,419	87,932	12,812	0	100,744	411,140	554,989
2000	1,207,175	224,317	1,431,492	1,041,536	173,535	121,638	221,221	79,138	25,241	0	104,379	1,662,309	3,093,801
2001	611,552	212,400	823,952	354,209	294,910	215,290	164,409	46,972	27,103	0	74,075	1,102,893	1,926,845
Beaver/Balboa/Unga Strait													
1988	123,769	76,533	200,302	106,816	66,274	50,497	22,020	5,399	10,364	0	15,763	261,370	461,672
1989	129,353	247,345	376,698	141,019	56,566	48,228	30,418	0	6,059	0	6,059	282,290	658,988
1990	373,873	479,216	853,089	384,768	40,079	155,649	89,422	16,441	6,615	0	23,056	692,974	1,546,063
1991	337,522	188,765	526,287	313,050	36,940	56,286	51,489	5,058	1,127	0	6,185	463,950	990,237
1992	73,138	128,905	202,043	80,582	30,326	47,470	20,585	564	2,026	0	2,590	181,553	383,596
1993	9,322	43,753	53,075	16,876	7,062	28,751	29,838	3,164	4,361	0	7,525	90,052	143,127
1994	10,118	29,294	39,412	9,240	4,361	11,329	25,120	2,254	5,938	0	8,192	58,242	97,654
1996	716,832	5,415	722,247	746,234	10,645	9,232	4,541	905	460	0	1,365	772,017	1,494,264
1997	107,308	23,353	130,661	57,536	34,559	4,218	6,683	0	0	0	0	102,996	233,657
1998	116,365	79,539	195,904	88,495	37,608	51,697	5,075	0	0	0	0	182,875	378,779
1999	30,113	59,467	89,580	78,639	10,903	35,551	22,833	685	0	0	685	148,612	238,192
2000	381,031	30,449	411,480	386,349	7,007	19,002	21,063	1,356	1,356	0	2,712	436,133	847,613
2001	795,671	78,698	874,369	856,993	65,117	32,117	16,721	0	0	0	0	970,948	1,845,317
West Nagai													
1989	263,853	202,990	466,843	307,542	136,756	71,670	23,766	2,101	5,383	0	7,484	547,218	1,014,061
1990	223,997	36,745	260,742	228,844	17,172	17,328	5,913	0	908	0	908	270,165	530,907

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Table 5. (Page 3 of 5)

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>115		<165	>165			
1991	212,474	24,805	237,279	236,403	6,002	6,002	18,007	3,813	0	0	3,813	270,227	507,506
1992	24,726	33,234	57,960	13,306	8,516	19,137	8,255	0	3,165	0	3,165	52,379	110,339
1993	19,405	4,835	24,240	16,141	9,946	74,494	14,797	908	0	0	908	116,286	140,526
1994	20,348	24,860	45,208	8,615	24,858	29,968	27,774	8,468	0	0	8,468	99,683	144,891
1996	50,747	4,706	55,453	40,628	7,431	16,597	20,148	0	908	0	908	85,712	141,165
1997	334,022	263,780	597,802	180,257	292,164	173,397	25,182	0	4,706	0	4,706	675,706	1,273,508
1998	79,789	104,054	183,842	34,976	94,673	152,269	54,389	3,761	760	0	4,520	340,827	524,669
1999	59,602	24,684	84,286	46,815	34,194	28,481	46,396	5,615	0	0	5,615	161,502	245,788
2000	324,382	24,281	348,663	368,760	5,425	5,696	18,988	5,615	1,899	0	7,514	406,383	755,046
2001	509,223	69,773	578,996	349,814	126,647	65,816	33,598	908	0	0	908	576,783	1,155,779
Stepovak													
1989	369,775	129,844	499,619	327,572	19,700	18,217	4,025	0	0	0	0	369,514	869,133
1990	891,103	138,654	1,029,757	992,870	7,256	28,929	19,636	8,266	6,158	0	14,424	1,063,115	2,092,872
1991	225,164	24,116	249,280	273,356	8,175	30,978	13,539	0	8,171	0	8,171	334,219	583,499
1992	286,231	26,900	313,131	255,298	7,249	31,206	7,802	2,013	0	0	2,013	303,568	616,699
1993	27,147	4,177	31,324	35,652	2,013	5,092	4,025	0	3,079	0	3,079	49,861	81,185
1994	30,462	2,013	32,475	32,303	0	0	0	0	0	0	0	32,303	64,778
1996	158,463	0	158,463	158,924	6,038	2,013	6,038	0	0	0	0	173,013	331,476
1997	25,774	18,114	43,888	67,372	40,254	14,089	0	0	2,013	0	2,013	123,727	167,616
1998	41,426	2,013	43,439	40,438	2,013	4,025	0	0	0	0	0	46,476	89,915
1999	40,454	8,051	48,505	58,559	0	4,025	8,051	0	0	0	0	70,635	119,140
2000	232,994	2,013	235,007	226,019	0	4,025	0	0	0	0	0	230,044	465,051
2001	479,137	0	479,137	466,342	29,292	0	0	0	0	0	0	495,634	974,771
SOUTH PENINSULA TOTALS													
1988	1,298,714	1,660,850	2,959,564	849,106	789,881	1,058,066	937,258	402,056	162,668	105,378	670,102	4,304,413	7,263,977
1989	7,270,297	3,823,630	11,093,927	6,239,495	2,113,150	1,014,151	720,596	177,032	97,822	17,669	292,523	10,379,915	21,473,842
1990	7,129,460	4,468,448	11,597,908	5,881,949	1,909,950	1,714,131	905,675	200,490	216,217	24,994	441,701	10,853,406	22,451,314
1991	3,922,555	1,881,961	5,804,516	3,669,679	719,429	838,141	788,545	137,801	213,591	3,200	354,592	6,370,386	12,174,902
1992	1,477,816	1,678,339	3,156,155	1,005,643	816,910	670,511	554,631	111,193	235,659	2,671	349,523	3,397,218	6,553,373
1993	681,454	1,087,994	1,769,448	488,259	465,890	1,210,591	795,350	146,764	117,323	3,308	267,395	3,227,485	4,996,933
1994	329,210	753,755	1,082,965	226,452	210,281	348,155	506,035	99,746	93,734	1,258	194,738	1,485,661	2,568,626
1996	2,457,513	323,027	2,780,540	2,204,825	202,773	142,952	203,500	45,608	44,601	1,193	91,402	2,845,452	5,625,992
1997	902,536	553,903	1,456,439	553,065	630,056	465,658	221,195	49,352	46,693	1,432	97,478	1,967,451	3,423,890
1998	1,934,646	2,818,255	4,752,901	1,075,574	1,881,309	2,515,756	1,010,828	101,324	151,483	5,616	258,423	6,741,890	11,494,791
1999	544,080	863,057	1,407,137	398,861	436,359	1,001,606	1,260,451	220,694	93,217	2,768	316,679	3,413,961	4,821,098
2000	4,111,006	1,559,880	5,670,886	3,967,578	507,560	893,388	1,323,221	715,660	155,450	2,811	873,921	7,565,668	13,236,554
2001	5,387,576	891,234	6,278,810	4,356,217	1,675,727	760,700	716,729	325,830	156,137	14,915	496,882	8,006,255	14,285,065

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Table 5. (Page 4 of 5)

Year	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>115	<165	>165					
CHIGNIK DISTRICT														
Ivanof														
1989	502,222	266,214	768,436	451,363	139,929	782,548	739,638	336,765	12,413	12,413	361,591	2,475,069	3,243,505	
1990	883,810	32,971	916,781	1,040,228	14,699	108,905	250,741	108,961	0	0	108,961	1,523,534	2,440,315	
1991	360,136	1,476	361,612	349,152	0	0	1,723	7,136	0	738	7,874	358,749	720,361	
1992	32,735	2,215	34,950	37,240	1,969	984	5,028	4,119	1,282	738	6,139	51,360	86,310	
1993	54,793	1,625	56,418	27,817	41,776	9,880	2,751	0	395	0	395	82,619	139,037	
1994	44,186	12,094	56,280	13,569	22,612	12,866	3,832	984	246	0	1,230	54,109	110,389	
1995	60,450	3,832	64,282	72,813	2,848	492	2,461	2,707	492	0	3,199	81,813	146,095	
1996	72,588	699	73,287	73,697	41,649	6,890	7,871	8,754	0	0	8,754	138,861	212,148	
1997	40,249	4,675	44,924	56,022	4,595	7,770	4,183	3,691	492	246	4,429	77,000	121,924	
1998	27,874	1,191	29,065	40,904	1,864	246	1,230	1,723	0	0	1,723	45,966	75,031	
1999	58,134	3,652	61,786	61,575	492	1,476	9,919	10,089	945	0	11,034	84,496	146,282	
2000	920,897	15,177	936,074	1,178,257	37,727	25,900	15,503	10,089	945	246	11,280	1,268,667	2,204,741	
2001	783,211	97,341	880,552	620,710	325,720	73,445	43,541	2,848	15,299	0	18,147	1,081,563	1,962,115	
Mitrofania														
1989	193,422	510,311	703,733	201,538	155,170	637,889	315,908	42,526	17,719	21,263	81,508	1,392,013	2,095,746	
1990	280,518	49,611	330,129	226,831	147,864	178,760	224,330	81,523	22,790	6,582	110,895	888,680	1,218,809	
1991	491,176	51,907	543,083	469,640	113,946	89,887	96,212	87,350	5,064	2,532	94,946	864,631	1,407,714	
1992	290,955	6,875	297,830	219,423	36,769	6,451	14,620	17,153	0	2,532	19,685	296,948	594,778	
1993	133,718	17,870	151,588	76,188	68,542	37,635	15,337	18,459	9,047	653	28,159	225,861	377,449	
1994	48,370	8,682	57,052	32,122	19,976	14,992	6,150	13,384	2,532	0	15,916	89,156	146,208	
1995	221,670	39,309	260,979	258,696	13,475	46,293	32,346	27,261	0	2,532	29,793	380,603	641,582	
1997	581,969	129,834	711,804	376,751	832,433	412,232	101,307	8,230	25,322	10,129	43,680	1,766,404	2,478,207	
1998	278,452	283,845	562,297	202,037	177,978	230,584	88,287	25,342	31,019	0	56,361	755,247	1,317,545	
1999	186,567	78,335	264,902	182,886	81,213	66,349	83,377	17,305	3,165	3,165	23,635	437,460	702,362	
2000	974,170	134,935	1,109,105	972,295	104,618	86,768	84,651	92,390	14,832	66,560	173,782	1,422,114	2,531,219	
2001	617,763	326,224	943,987	586,714	258,191	308,027	118,323	43,225	36,561	8,441	88,227	1,359,482	2,303,469	
Chignik Bay														
1989	672,315	450,163	1,122,478	660,618	89,843	81,938	174,032	40,159	13,229	0	53,388	1,059,819	2,182,297	
1990	1,650,408	423,973	2,074,381	1,330,223	112,046	133,699	445,000	83,477	77,931	1,387	162,795	2,183,763	4,258,144	
1991	1,119,262	486,770	1,606,032	1,065,392	98,759	48,866	131,640	67,386	66,421	0	133,807	1,478,464	3,084,496	
1992	1,150,083	323,334	1,473,417	1,307,665	91,362	69,122	34,071	0	14,828	0	14,828	1,517,048	2,990,465	
1993	823,018	216,258	1,039,276	790,570	467,458	307,173	186,929	22,190	60,687	3,285	86,162	1,838,292	2,877,568	
1994	235,448	135,863	371,311	72,104	520,864	514,182	143,525	28,567	32,314	949	61,830	1,312,505	1,683,816	
1995	173,571	93,530	267,101	206,860	3,191	52,921	174,183	82,082	14,528	0	96,610	533,765	800,866	
1996	1,007,659	128,777	1,136,436	995,237	34,926	44,795	249,658	263,870	72,615	0	336,485	1,661,101	2,797,537	

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Table 5. (Page 5 of 5)

Year	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit		Total	Total	Total
	Juvenile	Adult	Total	<70	70-91	92-114	>115			<165	>165	Legal	Males	Crabs
1997	1,125,526	334,726	1,460,252	1,020,376	270,496	167,556	237,470	150,391	77,358	5,367	233,116	1,929,015	3,389,267	
1998	427,675	626,553	1,054,228	292,559	187,095	243,303	230,118	45,704	91,684	1,213	138,601	1,091,676	2,145,904	
1999	628,224	146,209	774,433	471,690	307,845	353,425	431,851	144,268	165,099	0	309,367	1,874,178	2,648,611	
2000	3,145,891	433,733	3,579,624	2,800,331	1,657,007	793,849	546,024	224,130	182,700	10,414	417,244	6,214,455	9,794,079	
2001	2,232,384	487,845	2,720,229	922,107	2,819,978	841,760	416,338	217,533	48,541	2,554	268,628	5,268,811	7,989,040	
Kujilik														
1989	83,550	13,089	96,639	78,148	722	9,150	11,386	931	0	0	931	100,337	196,976	
1990	394,255	122,744	516,999	380,715	2,193	10,486	10,206	2,525	0	0	2,525	406,125	923,124	
1991	8,256	949	9,205	14,470	0	0	0	0	0	0	0	14,470	23,675	
1992	108,457	18,988	127,445	129,874	760	760	3,038	0	1,519	0	1,519	135,951	263,396	
1993	107,646	16,184	123,830	100,150	81,074	29,658	1,367	0	0	0	0	212,249	336,079	
1994	7,736	3,190	10,926	9,141	7,322	4,952	6,471	0	2,279	0	2,279	30,165	41,091	
1995	851	28,922	29,773	2,772	0	911	456	0	0	0	0	4,139	33,912	
1996	231,502	7,595	239,097	188,334	0	0	0	0	0	0	0	188,334	427,431	
1997	49,589	61,537	111,126	63,018	456	3,711	14,105	0	5,425	0	5,425	86,714	197,841	
1998	39,290	15,190	54,480	38,305	0	2,279	3,798	0	760	0	760	45,140	99,621	
1999	92,824	0	92,824	88,526	456	0	0	0	456	0	456	89,438	182,262	
2000	221,879	949	222,828	262,224	1,307	0	0	0	0	0	0	263,531	486,359	
2001	188,570	0	188,570	213,511	760	2,640	0	931	0	0	931	217,842	406,412	
CHIGNIK DISTRICT TOTALS														
1989	1,451,509	1,239,777	2,691,286	1,391,667	385,664	1,511,525	1,240,964	420,381	43,361	33,676	497,418	5,027,238	7,718,524	
1990	3,208,991	629,299	3,838,290	2,977,997	276,802	431,850	930,277	276,486	100,721	6,582	383,789	5,000,715	8,839,005	
1991	1,978,830	541,103	2,519,933	1,898,654	212,706	138,753	229,574	161,872	71,486	3,270	236,628	2,716,315	5,236,248	
1992	1,582,231	351,412	1,933,643	1,694,201	130,859	77,317	56,757	21,271	35,259	3,270	59,800	2,018,934	3,952,577	
1993	1,119,174	251,937	1,371,111	994,727	658,849	384,345	206,384	40,648	70,129	3,939	114,716	2,359,021	3,730,132	
1994	335,740	159,829	495,569	126,937	570,773	546,992	159,978	42,936	37,371	949	81,256	1,485,936	1,981,505	
1995	456,542	165,594	622,136	541,142	19,515	100,618	209,445	112,050	15,020	2,532	129,602	1,000,322	1,622,458	
1996	1,311,749	137,071	1,448,820	1,257,268	76,575	51,685	257,530	272,624	72,615	0	345,239	1,988,297	3,437,117	
1997	1,797,334	530,773	2,328,106	1,516,168	1,107,980	591,269	357,066	162,312	108,597	15,742	286,651	3,859,133	6,187,239	
1998	773,292	926,779	1,700,071	573,805	366,937	476,412	323,433	72,768	123,462	1,213	197,444	1,938,030	3,638,100	
1999	965,749	228,196	1,193,945	804,677	390,004	421,252	525,146	171,663	169,664	3,165	344,492	2,485,572	3,679,517	
2000	5,262,837	584,794	5,847,631	5,213,107	1,800,659	906,517	646,178	326,609	198,477	77,220	602,306	9,168,767	15,016,398	
2001	3,821,928	911,410	4,733,338	2,343,042	3,404,649	1,225,872	578,202	264,537	100,401	10,995	375,933	7,927,698	12,661,036	

Table 6. Relative abundance by weight of the top 20 species groups in the Alaska Peninsula Area trawl survey, 2001.

Rank	Common name	Species name	% of catch by weight
1	Walleye pollock	<i>Theragra chalcogramma</i>	24.5
2	Flathead sole	<i>Hippoglossoides elassodon</i>	23.7
3	Arrowtooth flounder	<i>Atheresthes stomias</i>	19.0
4	Yellowfin sole	<i>Pleuronectes aspera</i>	10.2
5	Pacific halibut	<i>Hippoglossus stenolepis</i>	3.6
6	Sunflower sea star	<i>Pycnopodia helianthoides</i>	2.1
7	Tanner crab	<i>Chionoecetes bairdi</i>	2.0
8	Pacific cod	<i>Gadus macrocephalus</i>	2.0
9	Purple-orange seastar	<i>Asterias amurensis</i>	2.0
10	Sea anemone unidentified	Order: Actinaria	1.6
11	Northern rock sole	<i>Lepidopsetta perarcuata</i>	1.4
12	Big skate	<i>Raja binoculata</i>	1.3
13	Starry flounder	<i>Platichthys stellatus</i>	1.3
14	Alaska plaice	<i>Pleuronectes quadrituberculatus</i>	0.8
15	Hermit crab unidentified	Family: Paguridae	0.5
16	Rex sole	<i>Glyptocephalus zachirus</i>	0.4
17	Yellow Irish lord	<i>Hemilepidotus hemilepidotus</i>	0.4
18	Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.4
19	Plain sculpin	<i>Myoxocephalus joak</i>	0.3
20	Jellyfish	Class: Scyphozoa	0.2
	All others		2.3
			100.0

Table 7. Bitter crab sample results from Alitak Bay, 1991-2001.

Station	BITTER CRAB SAMPLING YEAR																					
	1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001	
	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive
ALA	30	6.7	30	0.0	30	3.5	29	0.0	29	0.0	30	0.0	30	0.0	21	0.0	30	3.3	8	3.3	21	0
ALB	24	23.8	23	8.7	11	0.0	NA		NA		NA		NA		4	0.0	1	0.0	1	0	13	0
ALC	29	0.0	30	0.0	30	13.3	29	3.4	30	0.0	30	3.3	30	3.3	30	0.0	30	0.0	30	0	29	3.4
ALD	30	0.0	29	0.0	30	3.3	9	11.1	1	0.0	20	0.0	NA		28	3.6	30	0.0	30	0	30	0
ALF	30	6.7	29	0.0	30	10.0	17	0.0	28	0.0	29	6.9	26	7.7	NA	0.0	4	0.0	30	0	30	0
ALG	30	3.3	30	3.4	30	3.4	28	10.7	18	11.1	4	0.0	30	3.3	30	0.0	30	6.7	30	3.3	30	25
ALH	30	3.3	30	10.0	30	6.7	30	3.3	30	6.7	30	0.0	33	3.0	30	0.0	34	0.0	30	3.3	30	0
ALI	30	13.3	30	6.7	30	6.7	30	3.3	30	0.0	30	0.0	30	0.0	30	0.0	30	3.3	30	13.3	30	0
ALJ	28	10.7	30	3.3	30	3.3	30	16.7	14	7.7	19	0.0	14	14.3	30	3.3	30	0.0	31	6.7	30	13.3
ALK	17	41.2	15	20.0	30	6.7	9	55.6	2	50.0	7	0.0	11	9.1	31	3.2	30	20.0	29	6.7	30	20
ALL	30	6.7	28	7.1	30	3.3	30	3.3	30	3.3	30	0.0	30	0.0	30	0.0	30	6.7	30	6.7	30	3.3
ALM	27	48.1	3	33.3	30	6.7	6	0.0	5	0.0	4	0.0	12	25.0	30	20.0	12	16.7	30	10	30	3.3
ALO	28	42.9	30	24.1	30	13.3	30	0.0	29	0.0	30	10.0	30	13.3	30	6.7	26	23.1	30	53.3	30	6.7
ALP	30	60.0	29	37.9	30	26.7	30	23.3	30	23.3	30	23.3	30	30.0	30	43.3	30	33.3	30	46.7	30	23.3
ALQ	30	60.0	29	27.6	30	16.7	30	3.3	29	36.7	29	31.0	30	36.7	30	43.3	30	36.7	30	33.3	24	45.8
ALR	30	33.3	29	24.1	30	10.0	30	3.3	21	0.0	30	13.3	30	26.7	31	12.9	18	38.9	30	16.7	30	20
Totals	453	16.0	424	18.1	461	7.9	367	5.2	326	7.8	352	6.6	366	13.5	415	18.1	395	7.5	429	4.7	447	3.7

Table 8. Estimated number of Tanner crabs per station with bitter crab syndrome in Alitak Bay, 1991-2000.

Station	BITTER CRAB SAMPLING YEAR										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
ALA	1,475	0	83,142	0	0	0	0	0	246	72	0
ALB	1,041	349	0			0	0	0	0	0	0
ALC	0	0	337,756	577	0	2,844	4,849	0	0	0	4,669
ALD	0	0	3,391	577	0	0	0	247	0	0	0
ALF	35,156	0	46,994	0	0	2,376	1,914	0	0	0	0
ALG	2,820	899	9,735	4,153	2,054	0	1,322	0	1,880	3,024	223,527
ALH	5,772	5,640	9,136	2,404	2,487	0	2,748	0	0	9,542	0
ALI	9,504	4,146	7,767	8,718	0	0	0	0	1,166	70,548	0
ALJ	16,520	2,228	67,734	8,577	772	0	1,337	713	0	9,628	54,577
ALK	3,267	1,762	20,719	2,753	734	0	601	853	6,167	5,608	23,688
ALL	2,987	4,015	3,826	1,850	2,513	0	0	0	705	5,478	7,315
ALM	9,959	713	25,639	0	0	0	2,142	8,710	1,428	7,353	51,403
ALO	34,198	29,687	18,413	0	0	3,722	10,520	3,920	4,466	47,165	23,064
ALP	56,142	91,237	69,726	11,710	13,279	19,848	36,748	75,197	15,312	31,212	19,820
ALQ	39,427	64,094	42,191	2,844	17,795	29,105	52,165	39,257	7,252	11,803	17,532
ALR	99,228	65,675	25,651	1,086	0	10,821	35,861	3,822	4,147	5,046	20,260
Totals	317,496	270,445	771,820	45,249	39,634	68,716	150,204	132,718	42,767	206,478	445,855
Population Estimate	633,517	540,890	1,460,498	90,498	1,937,685	1,048,444	1,109,204	735,074	569,397	4,397,213	11,956,612

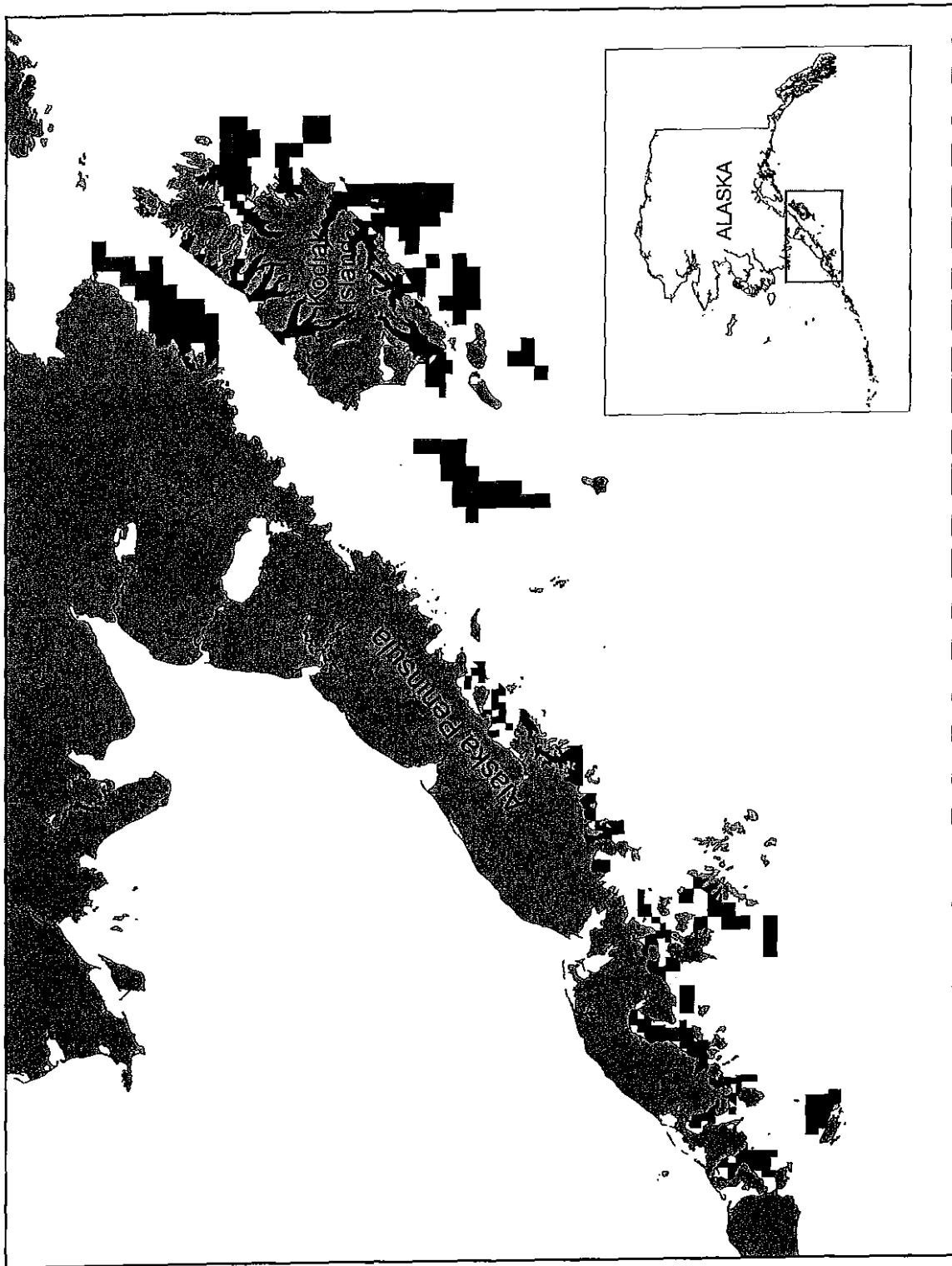


Figure 1. Westward Region trawl survey area, 2001.

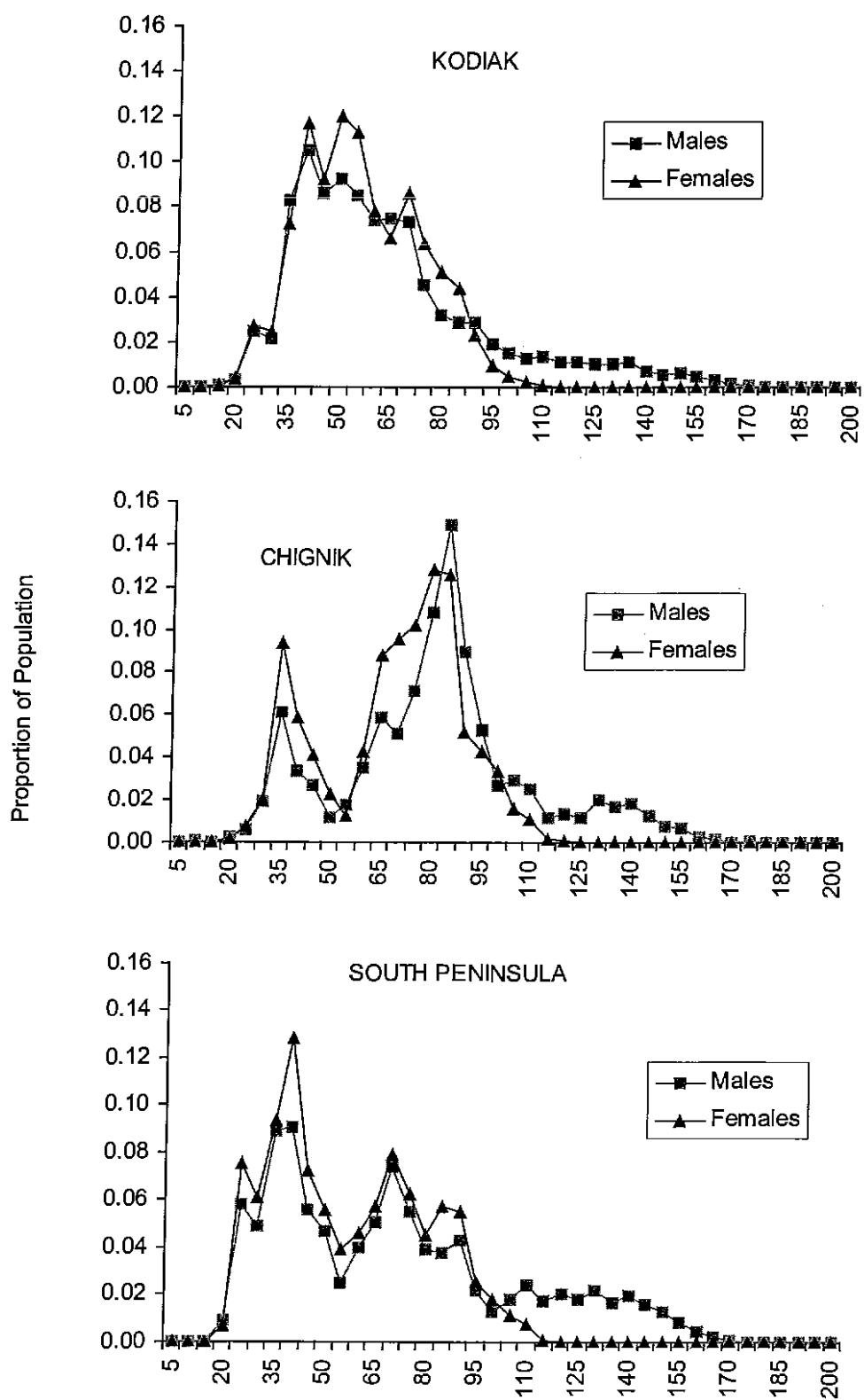


Figure 2. Carapace widths of male and female Tanner crabs estimated in the 2001 Westward Region trawl survey.

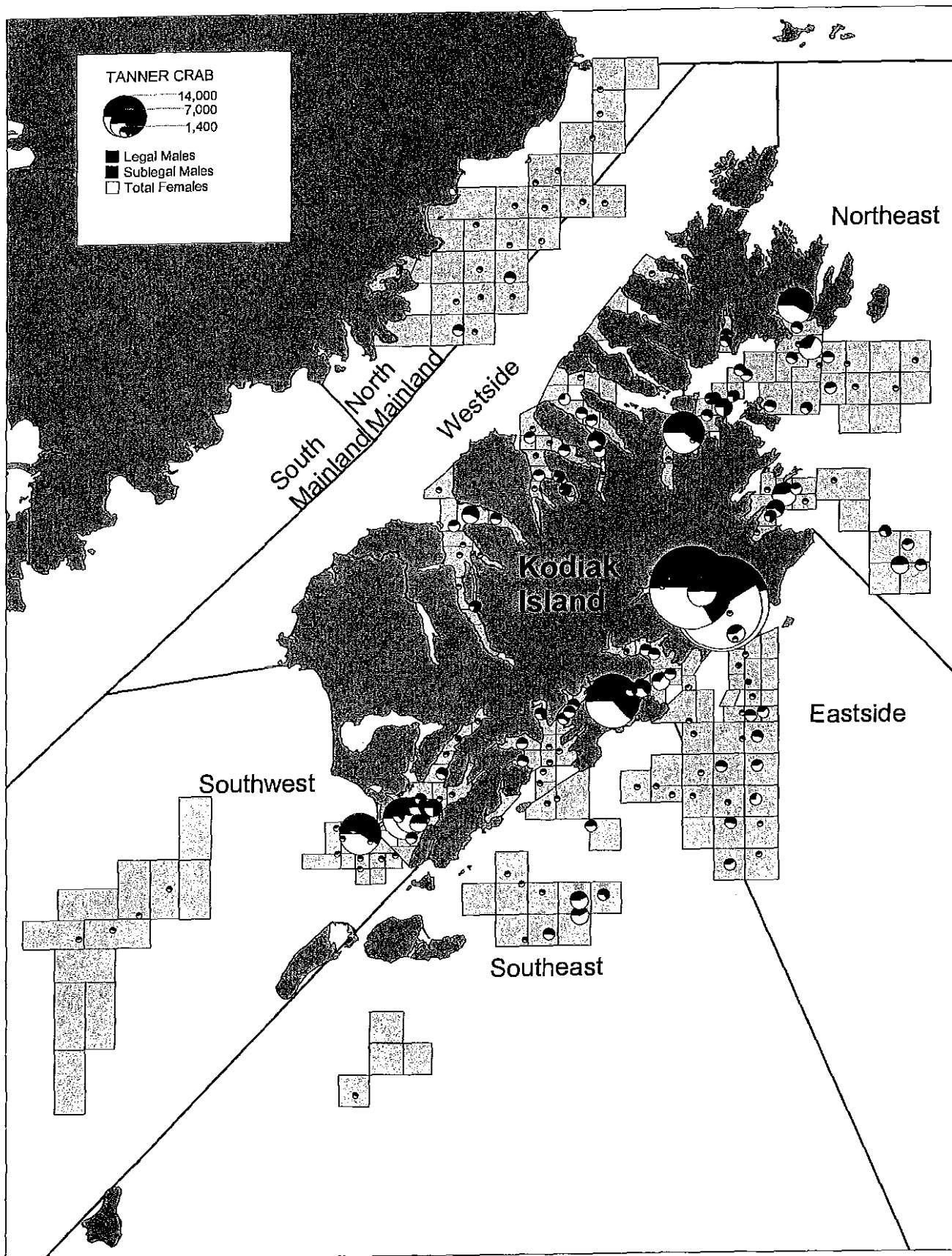


Figure 3. Number of Tanner crabs per kilometer towed in the 2001 Kodiak trawl survey.

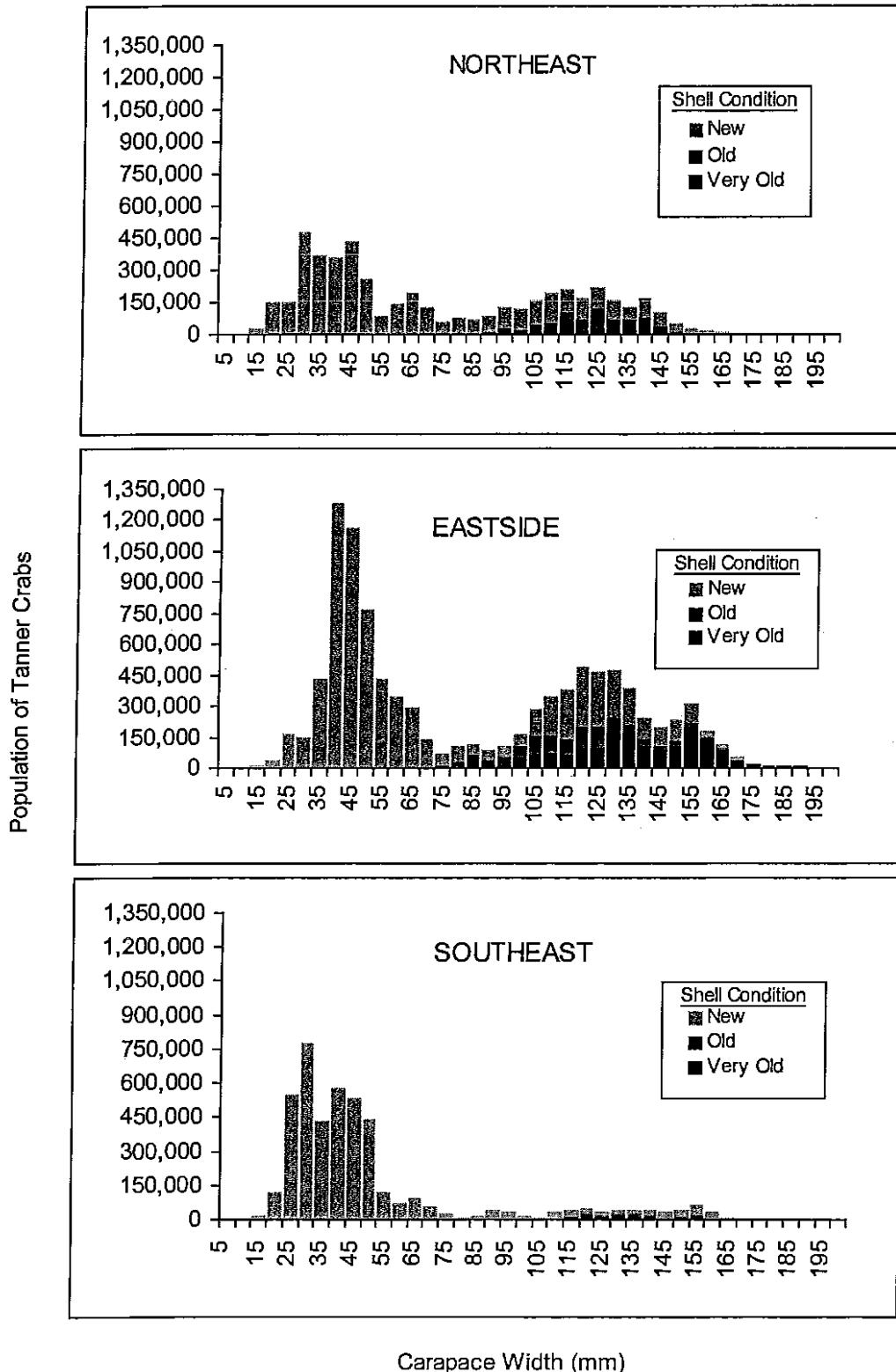


Figure 4. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from the Northeast, Eastside, and Southeast Sections of Kodiak District in the 2001 trawl survey.

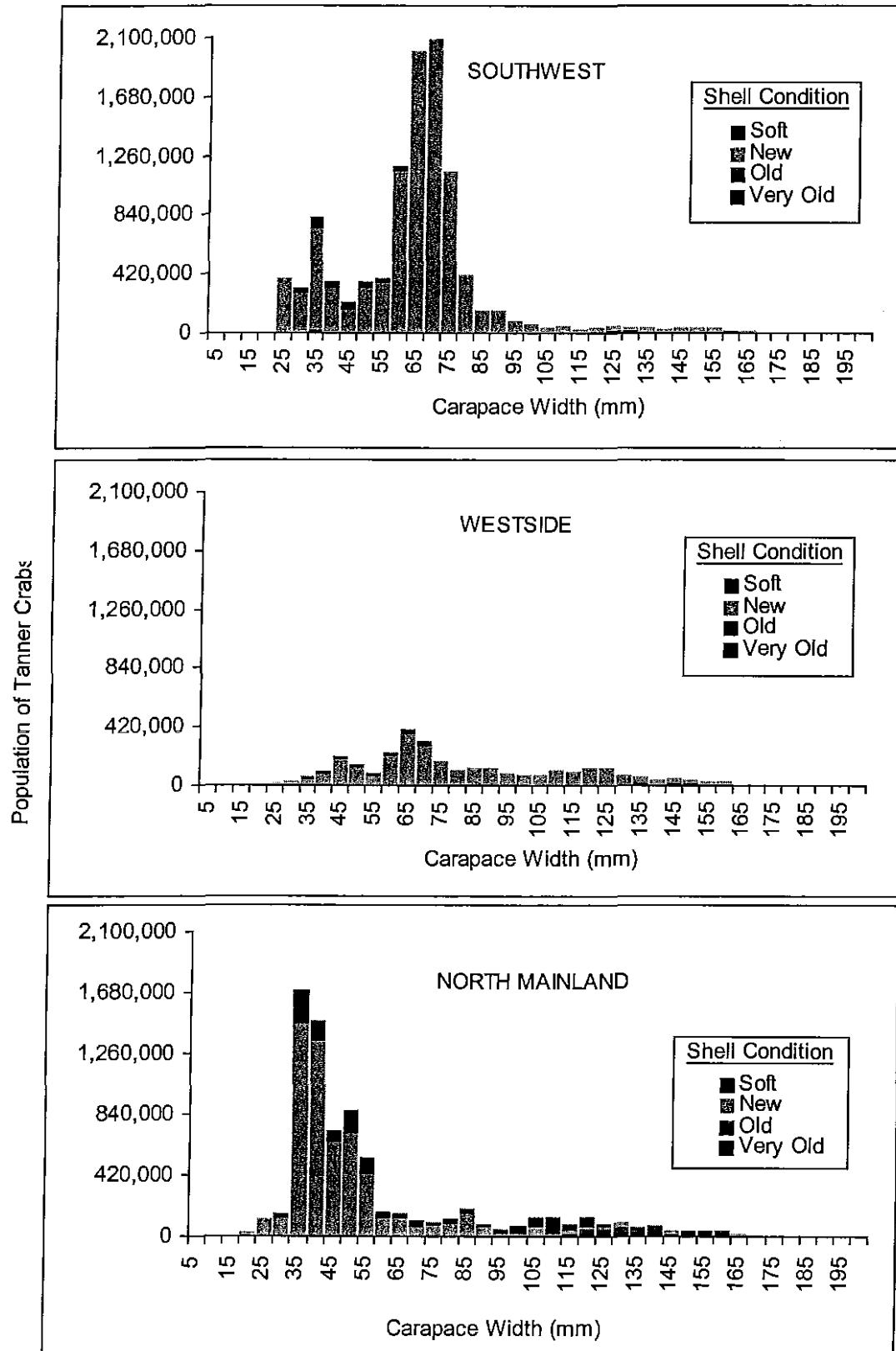


Figure 5. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from the Southwest, Westside, and North Mainland Sections of Kodiak District in the 2001 trawl survey.

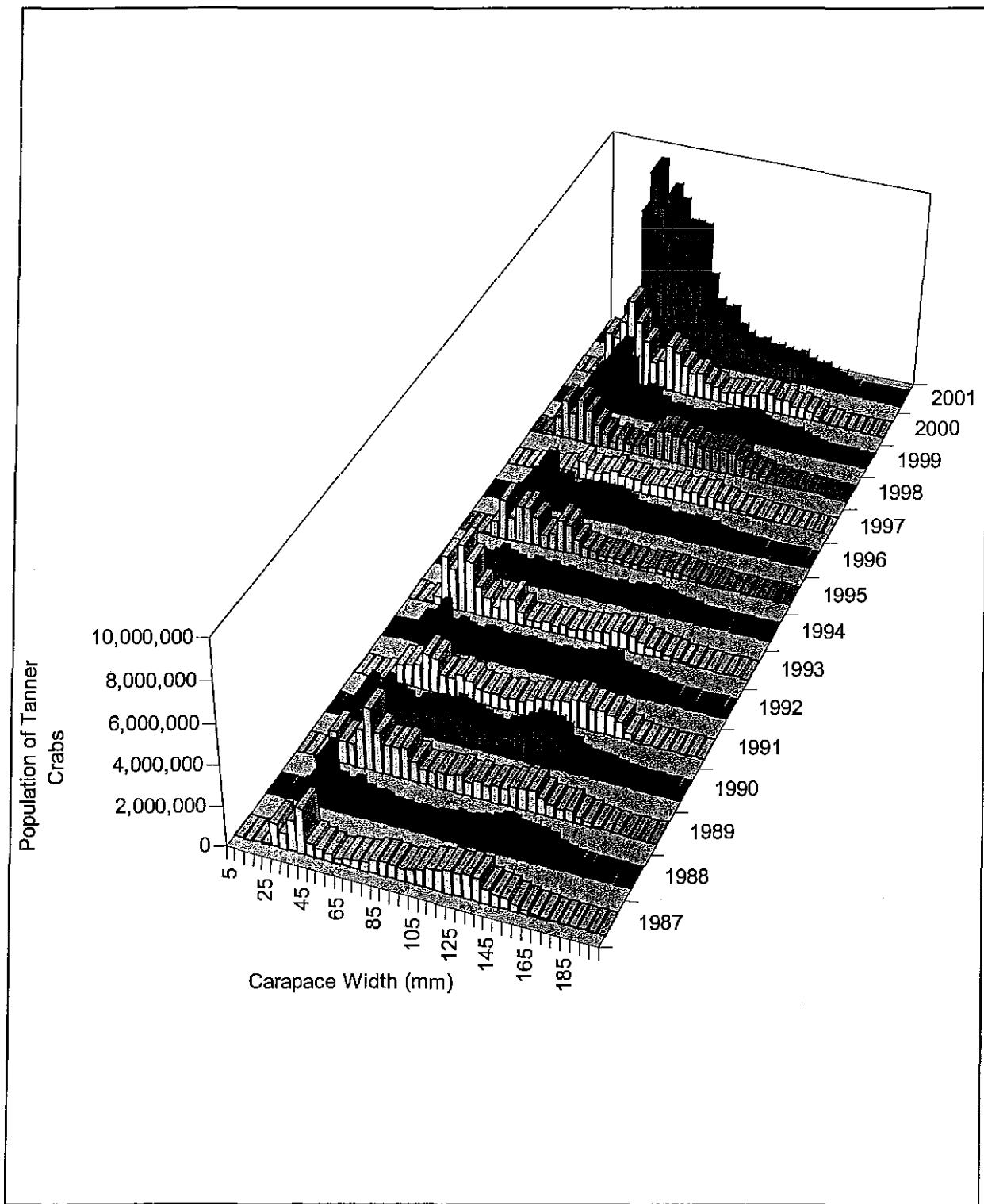


Figure 6. Estimated population of male Tanner crabs by carapace width in the Kodiak District, 1987-2001.

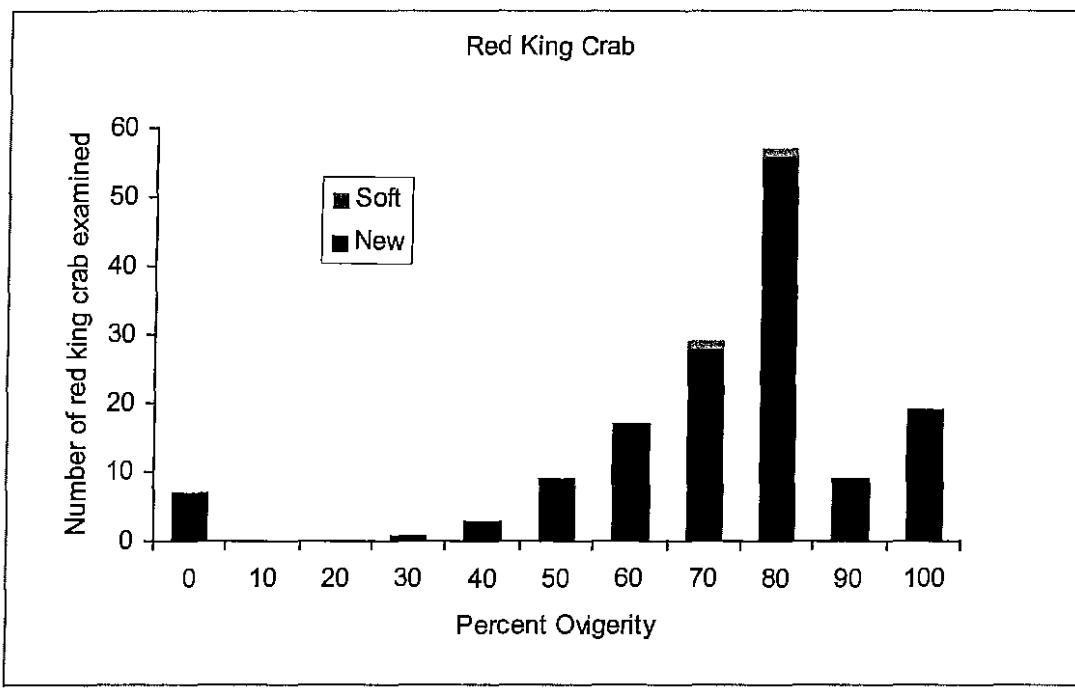
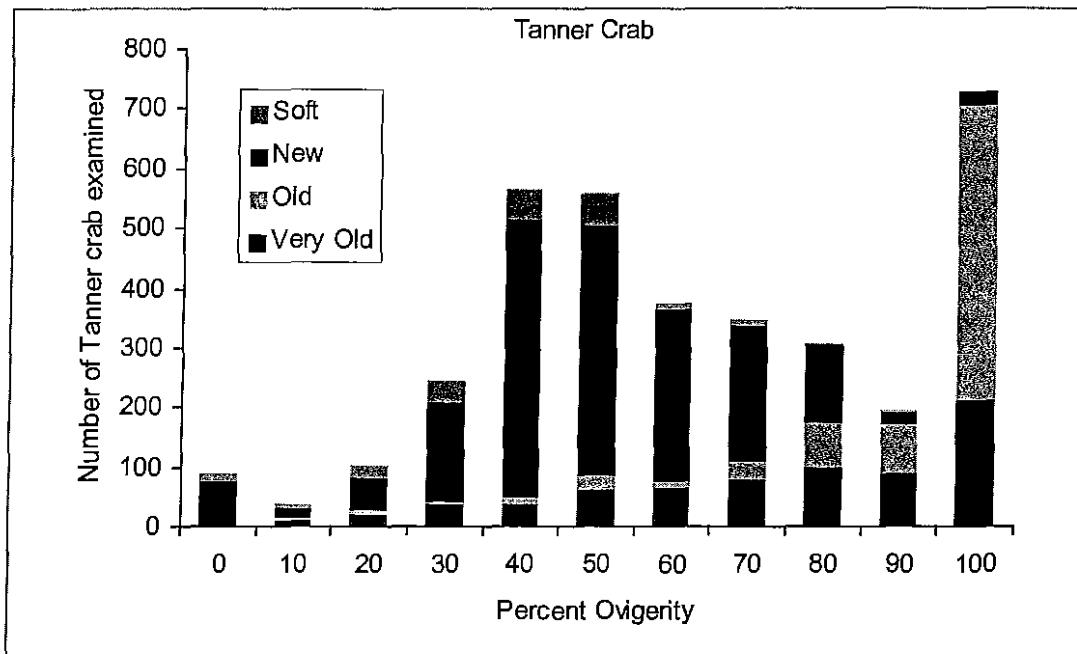


Figure 7. Percent ovigency (clutch fullness) of female Tanner and red king crabs captured in the Kodiak trawl survey, 2001. Tanner crab ovigency is presented as a stacked bar graph of shell ages.

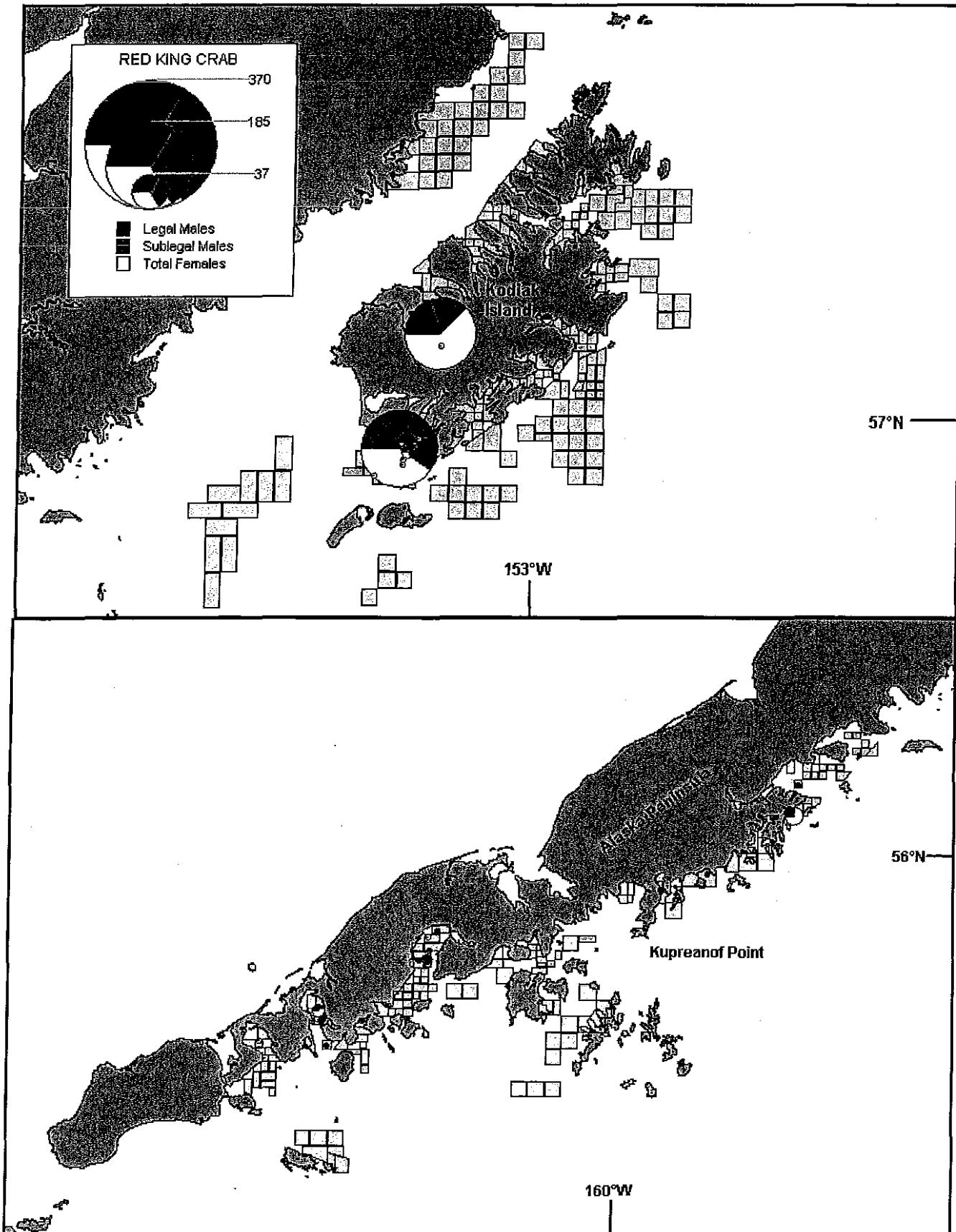


Figure 8. Number of red king crabs per kilometer towed from the 2001 Kodiak and Alaska Peninsula Area trawl surveys.

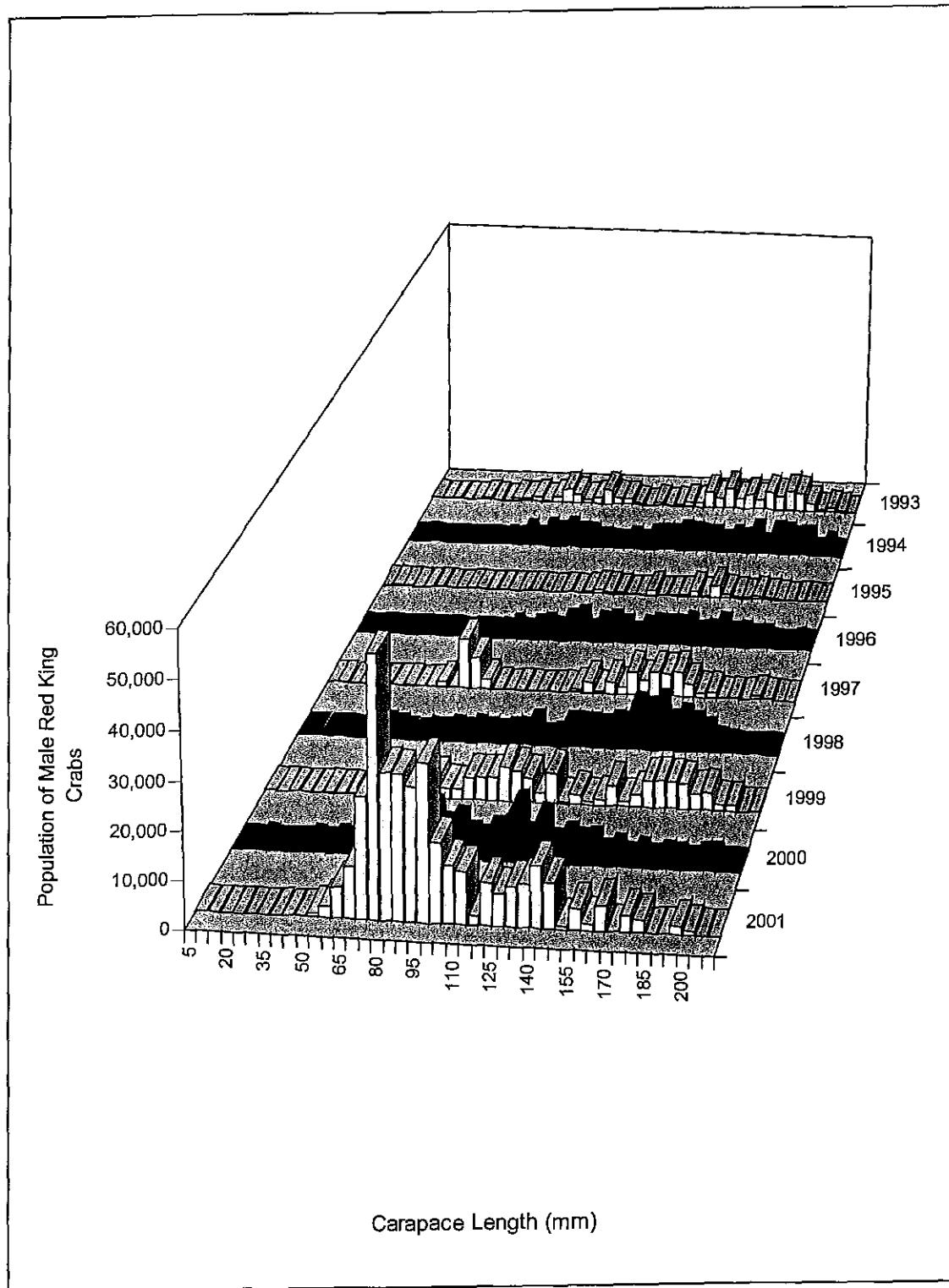


Figure 9. Estimated population of male red king crabs by carapace length from the Kodiak Area, 1993-2001.

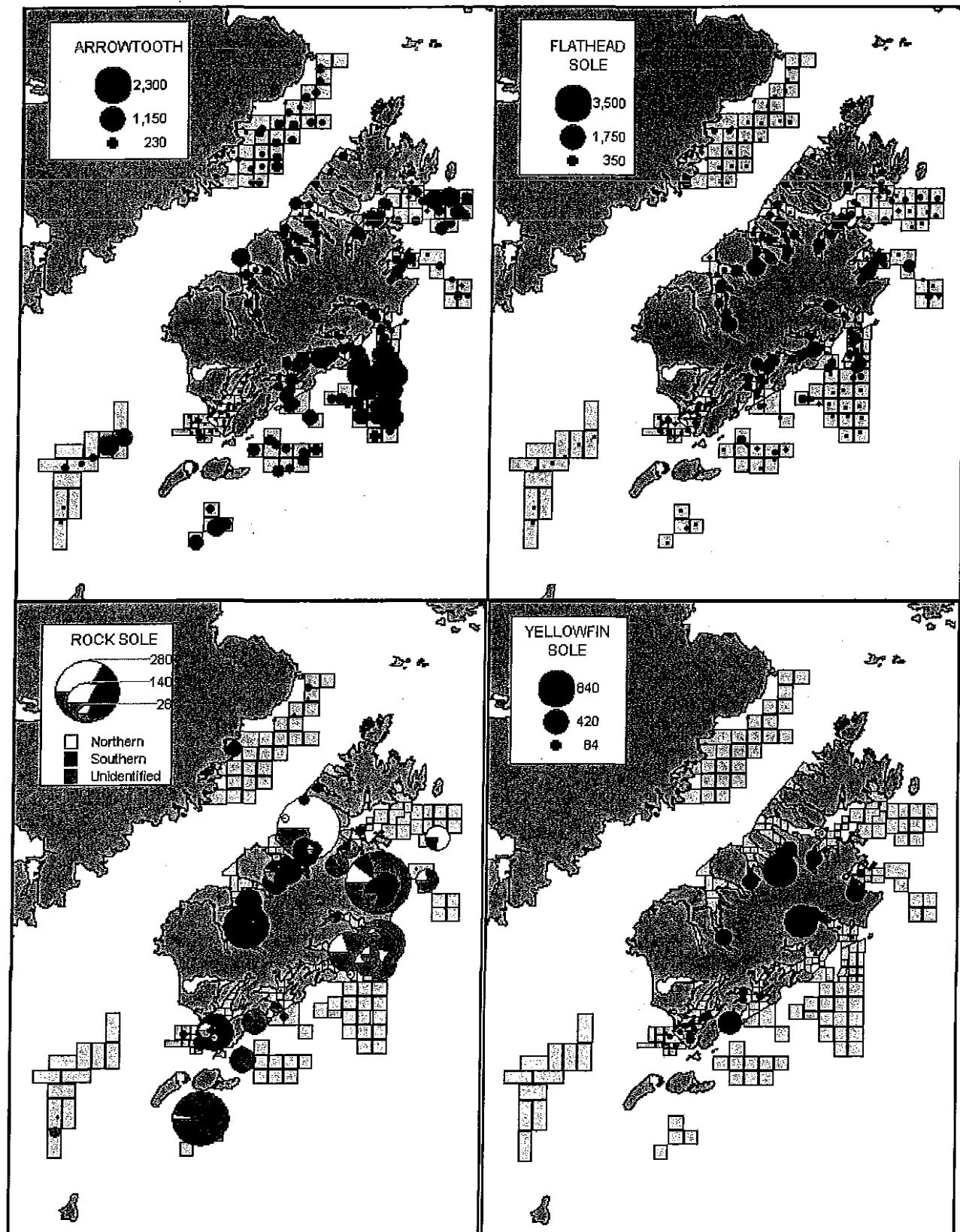


Figure 10. Catch in kilograms per kilometer towed of arrowtooth flounder, flathead sole, rock sole, and yellowfin sole from the 2001 Kodiak trawl survey.

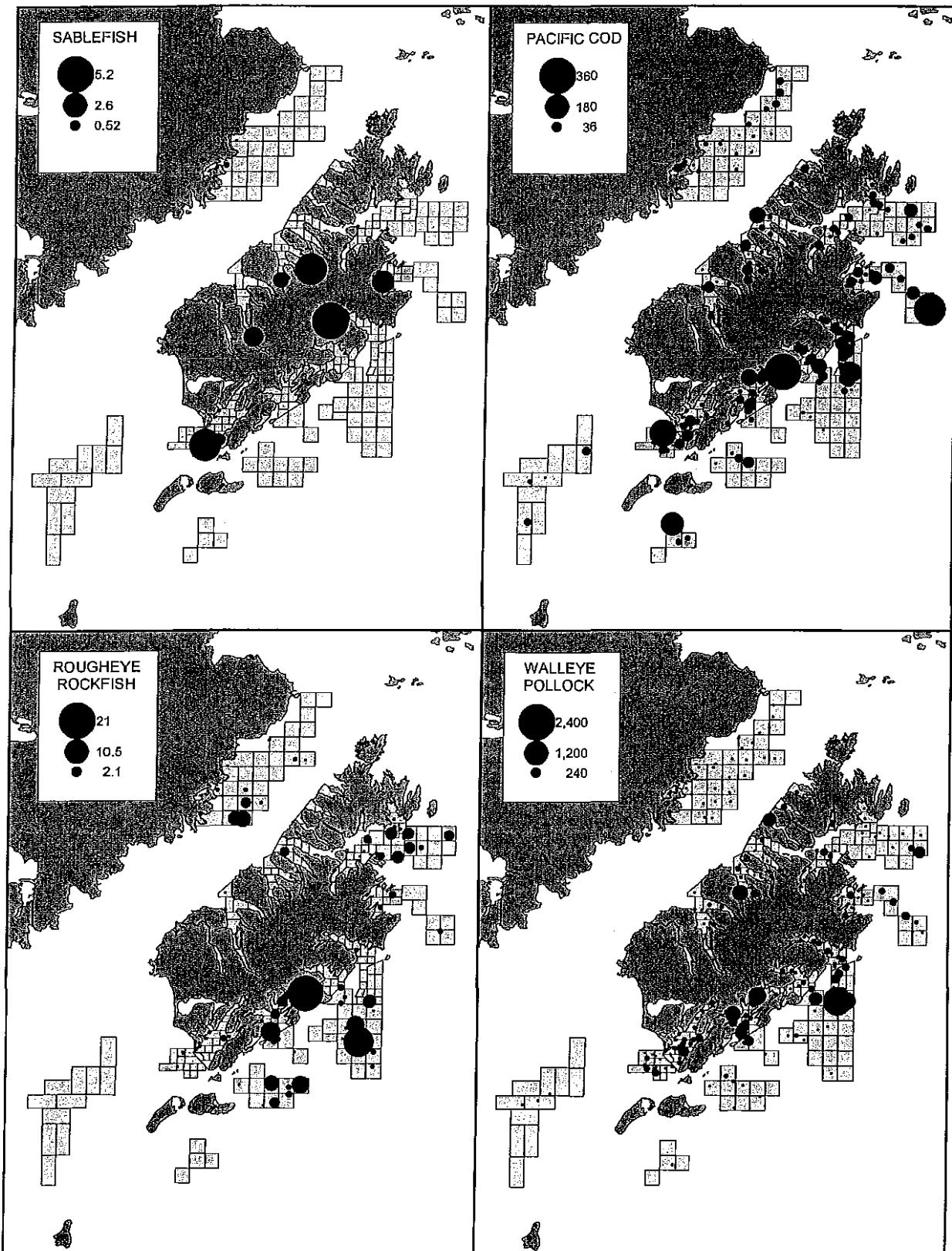


Figure 11. Catch in kilograms per kilometer towed of sablefish, Pacific cod, rougheye rockfish, and walleye pollock from the 2001 Kodiak trawl survey.

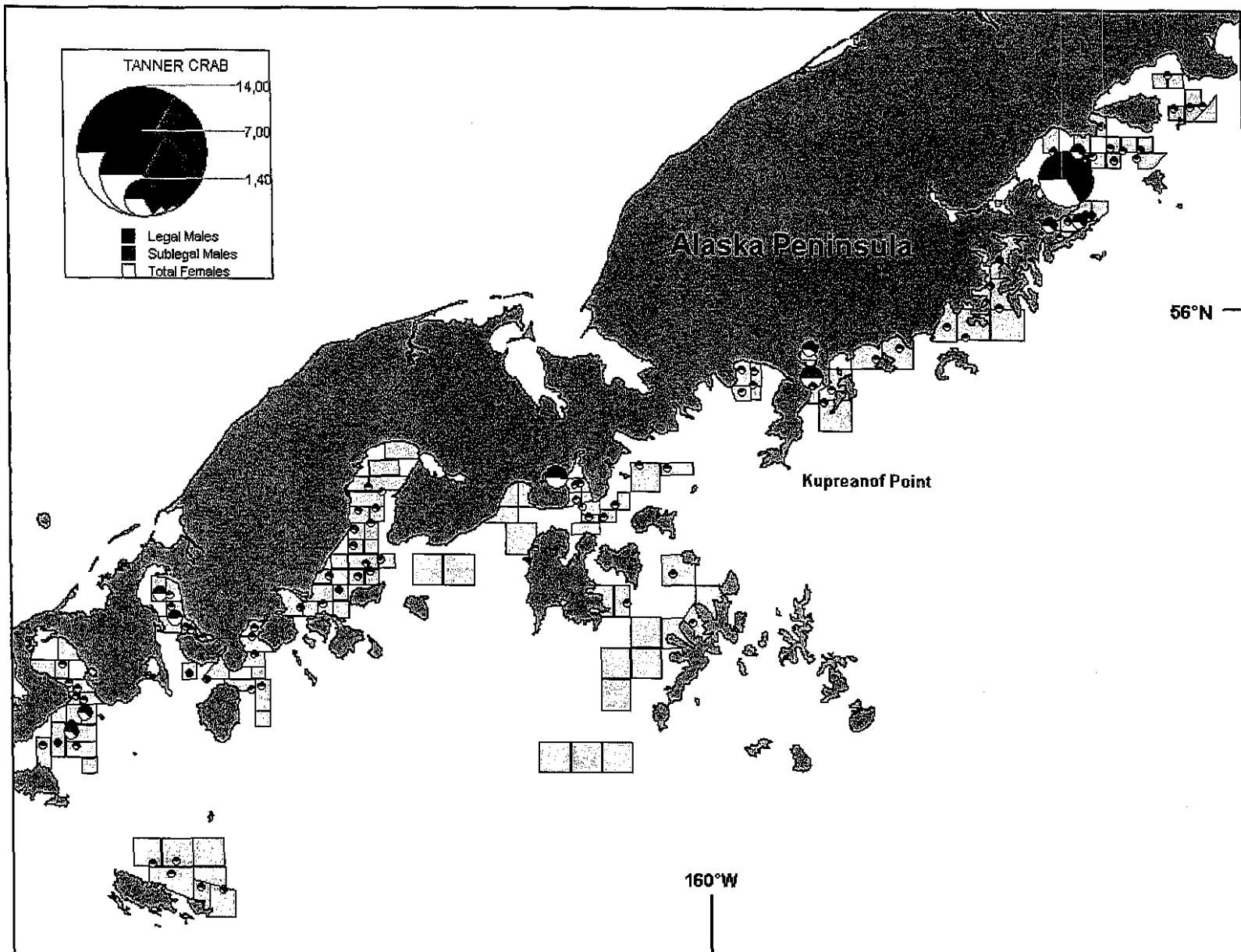


Figure 12. The number of Tanner crabs per kilometer towed from the 2001 Alaska Peninsula trawl survey.

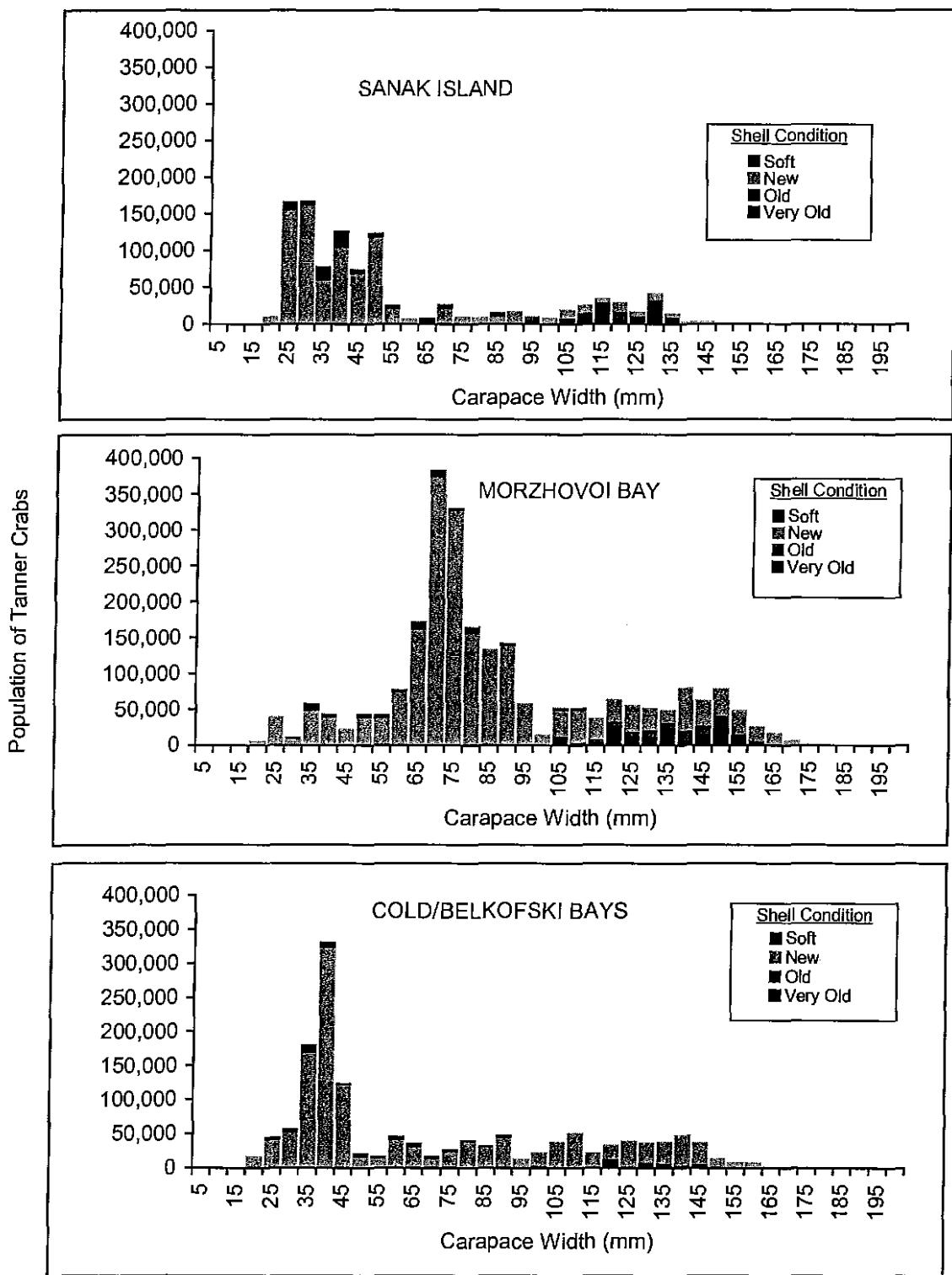


Figure 13. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from Sanak Island, Morzhovoi Bay, and Cold/Belkofski Bays in the 2001 South Peninsula trawl survey.

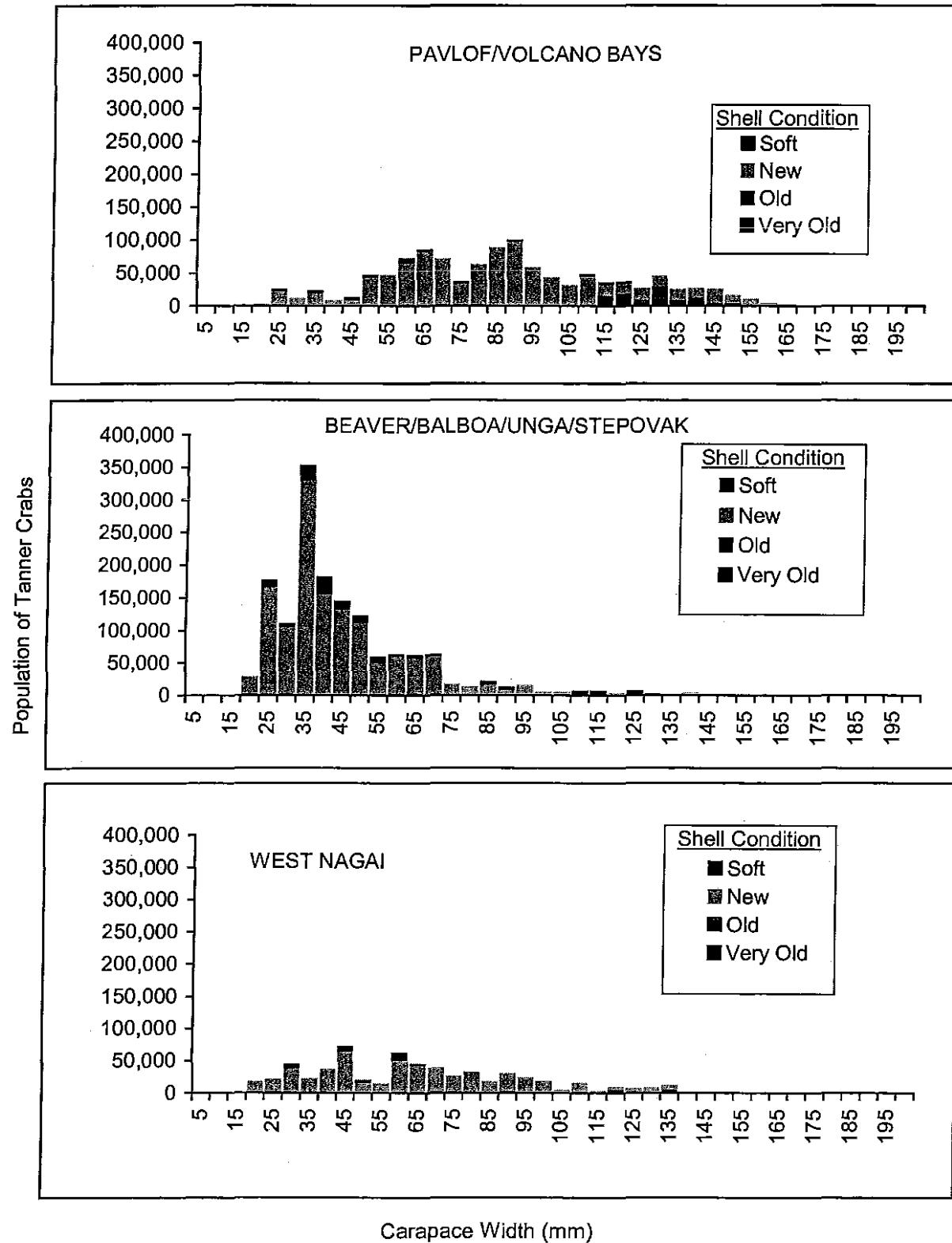


Figure 14. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from Pavlof/Volcano Bays, Beaver/Balboa/Unga/Stepovak, and West Nagai in the 2001 South Peninsula trawl survey.

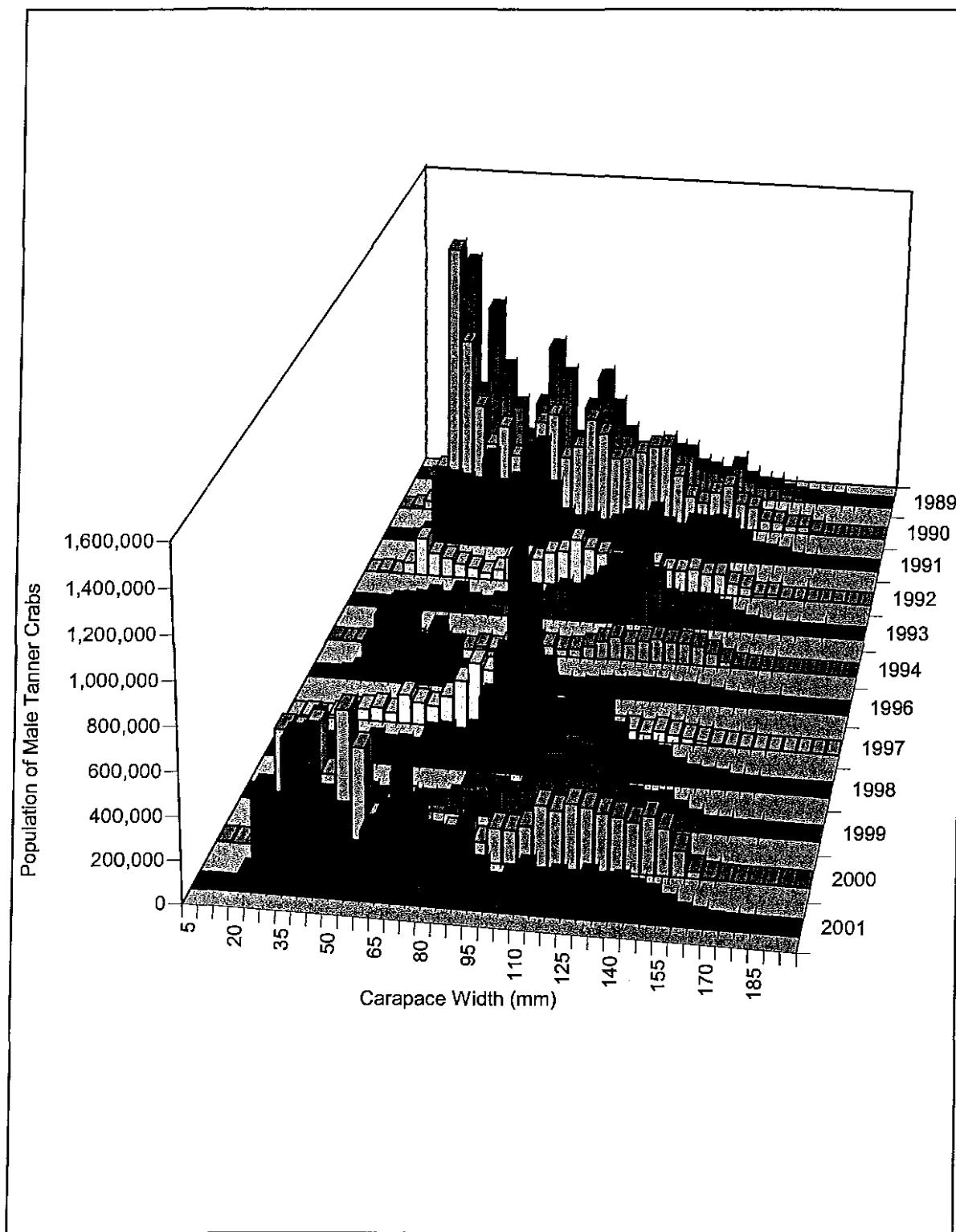


Figure 15. Estimated population of male Tanner crabs by carapace width in the South Peninsula District, 1989-2001.

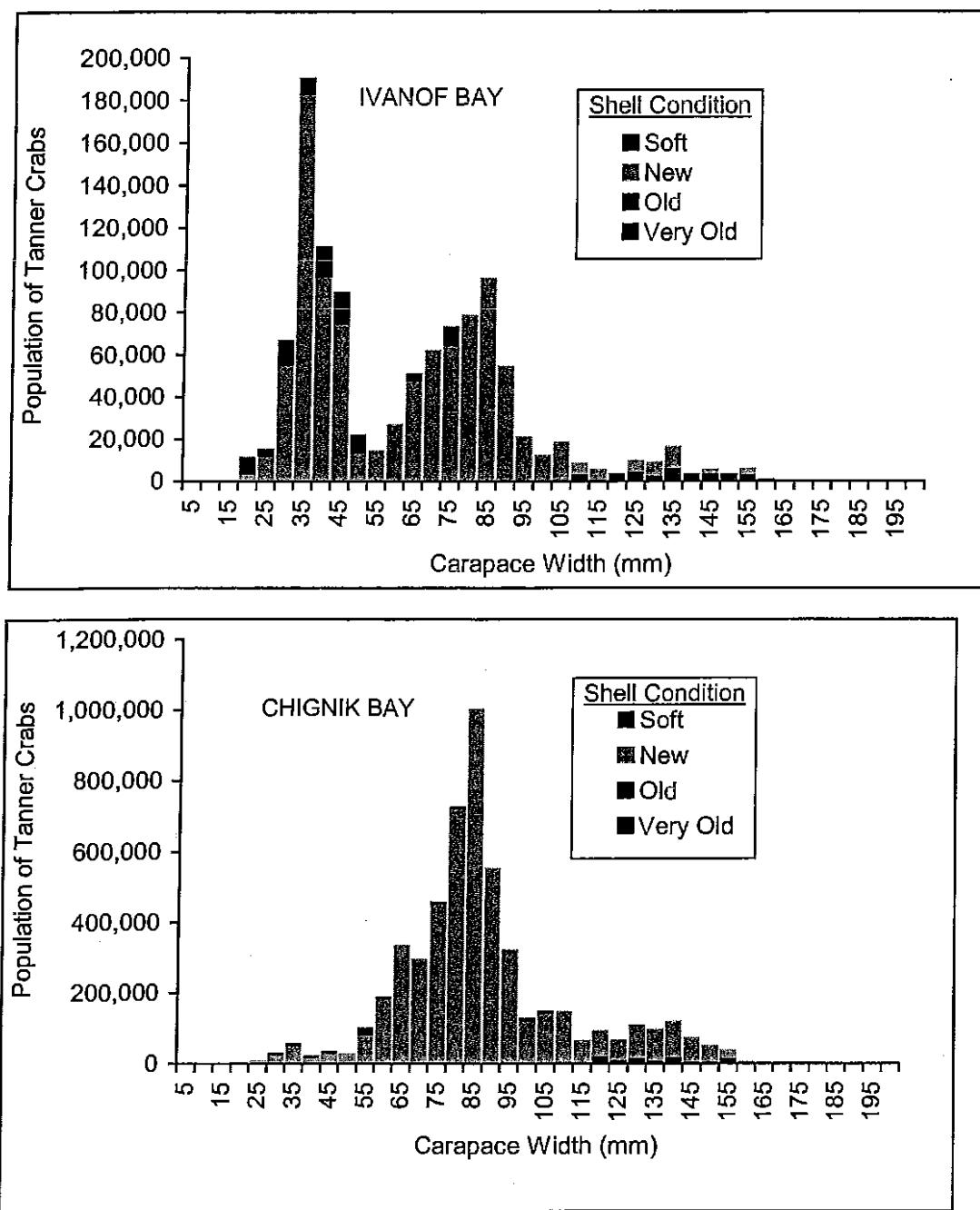


Figure 16. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from Ivanof and Chignik Bays of the 2001 trawl survey.

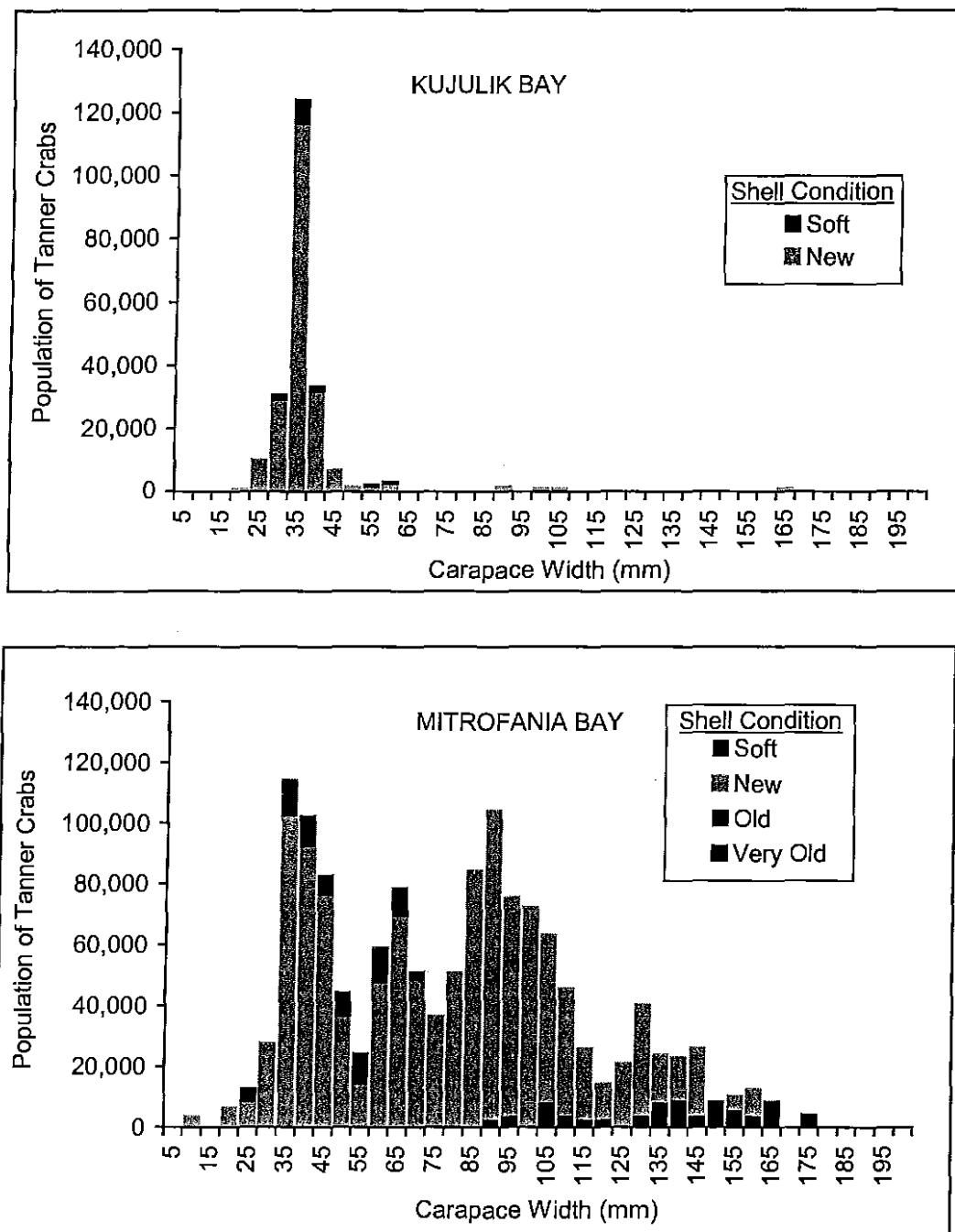


Figure 17. Carapace width frequency by shell condition of the estimated population of male Tanner crabs from Kujulik and Mitrofania Bays of the 2001 trawl survey.

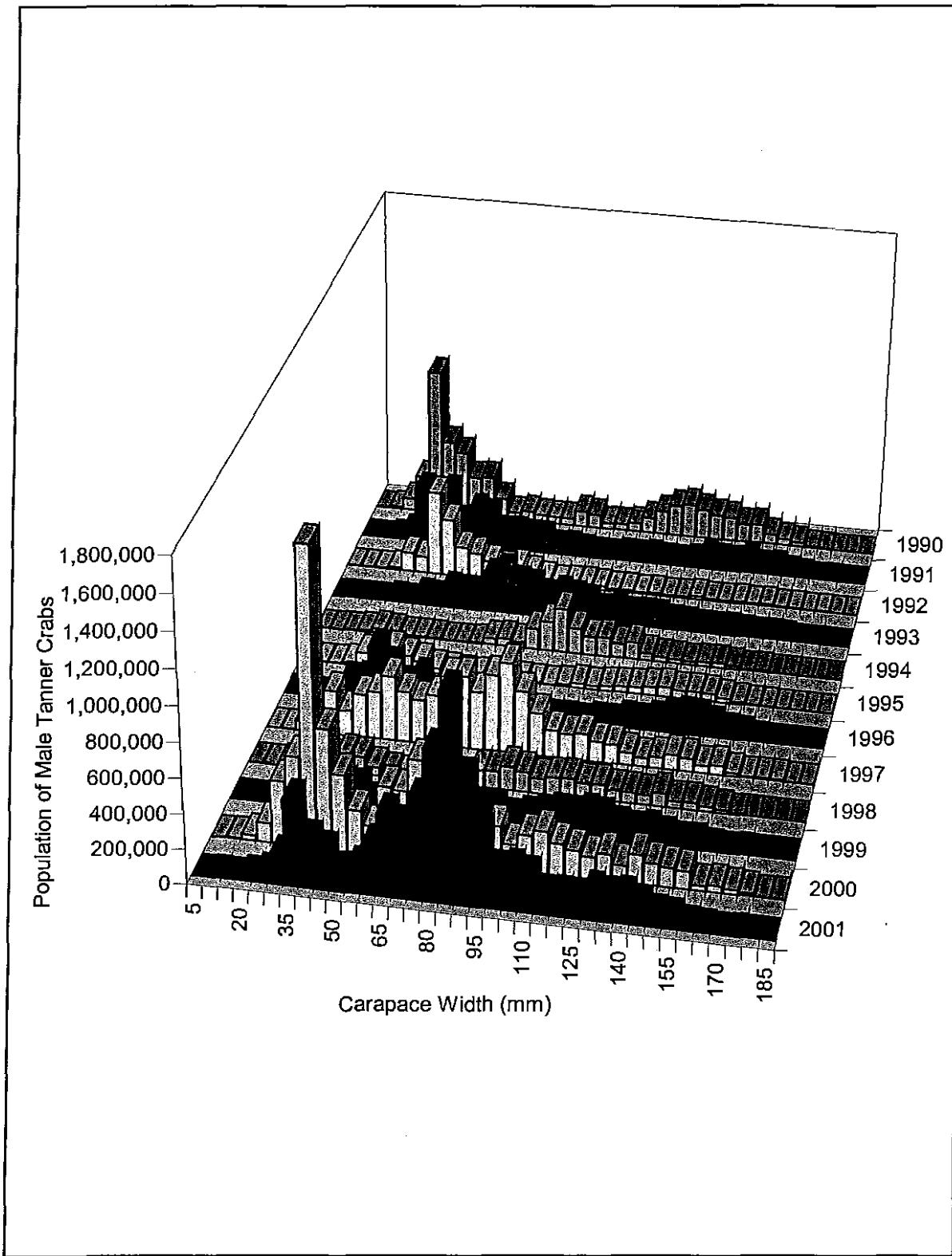


Figure 18. Estimated population of male Tanner crabs by carapace width in the Chignik District, 1990-2001.

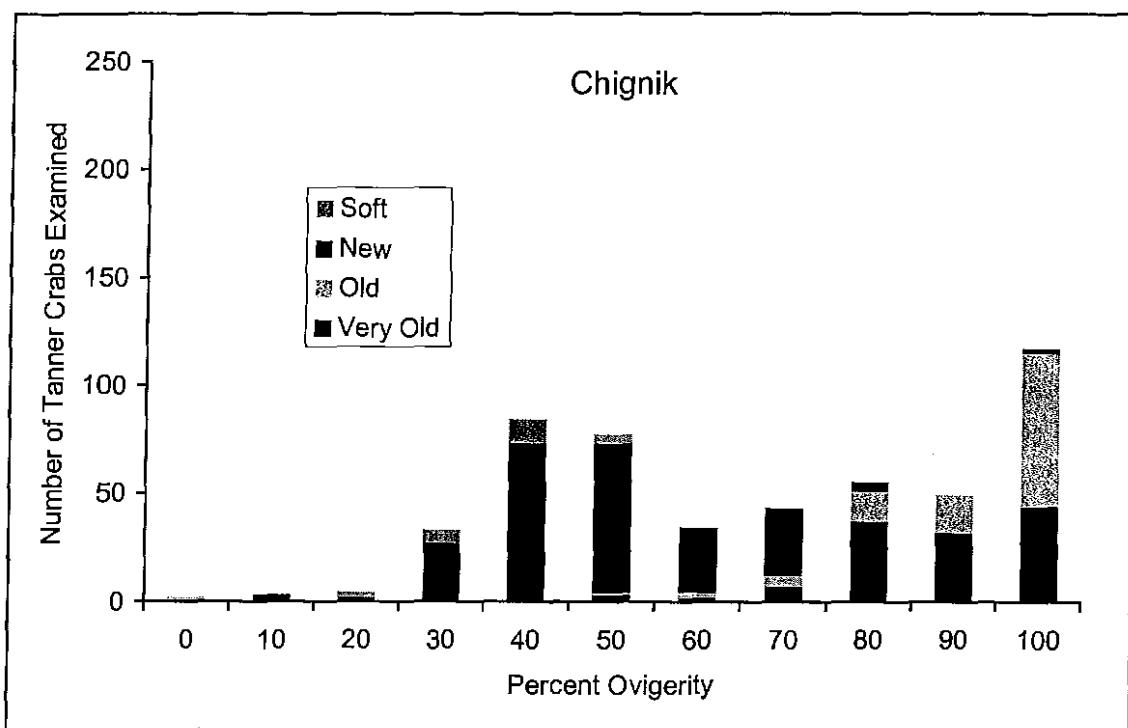
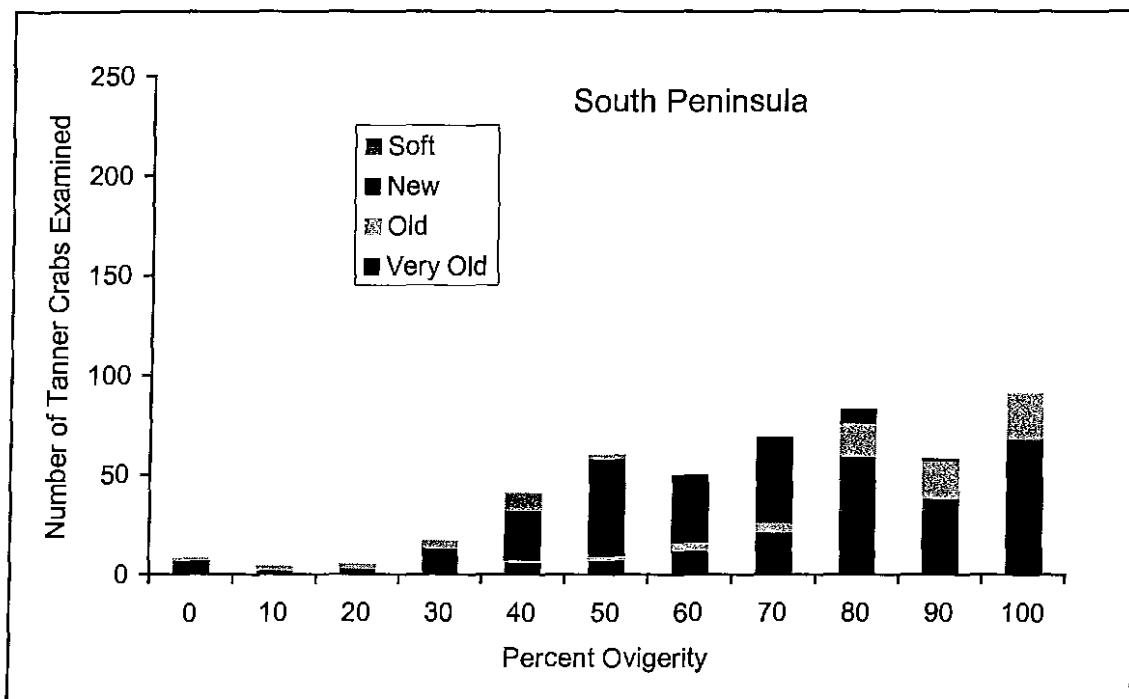


Figure 19. Percent ovigarity (clutch fullness) by shell condition of female Tanner crabs captured in the South Peninsula and Chignik Districts, 2001.

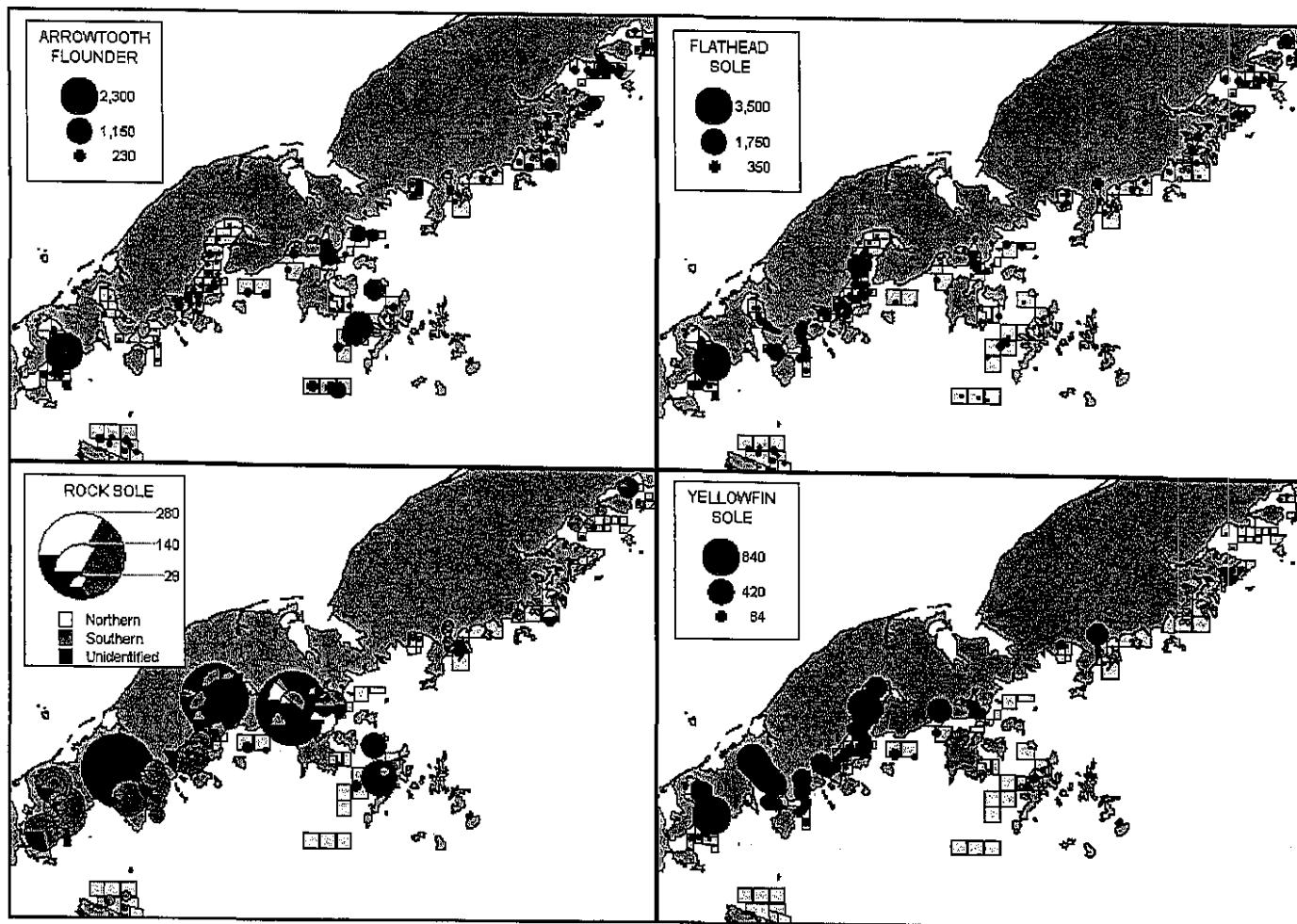


Figure 20. Catch in kilograms per kilometer towed of arrowtooth flounder, flathead sole, rock sole, and yellowfin sole from the 2001 Alaska Peninsula trawl survey.

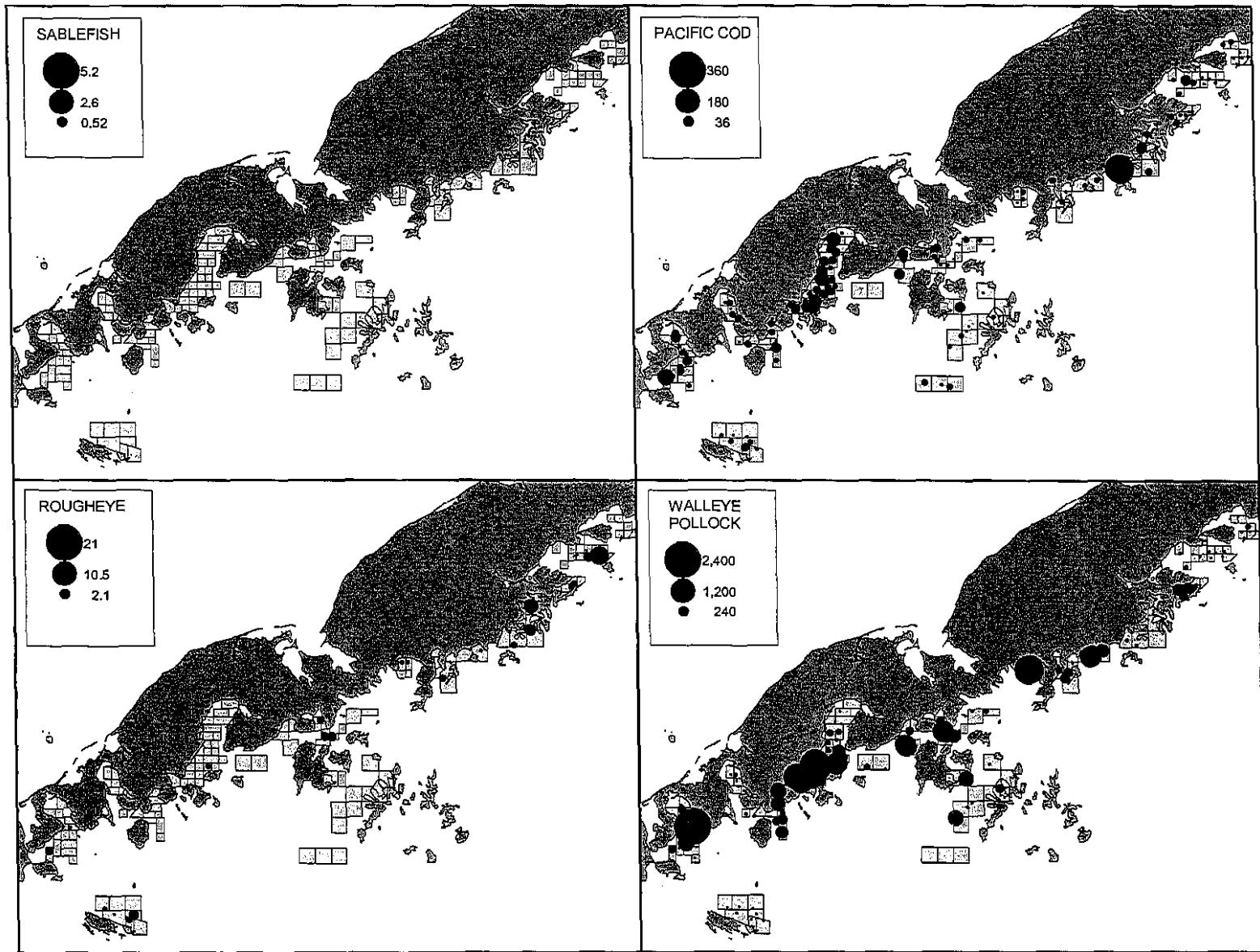


Figure 21. Catch in kilograms per kilometer towed of sablefish, Pacific cod, rougheye rockfish, and walleye pollock from the 2001 Alaska Peninsula trawl survey.

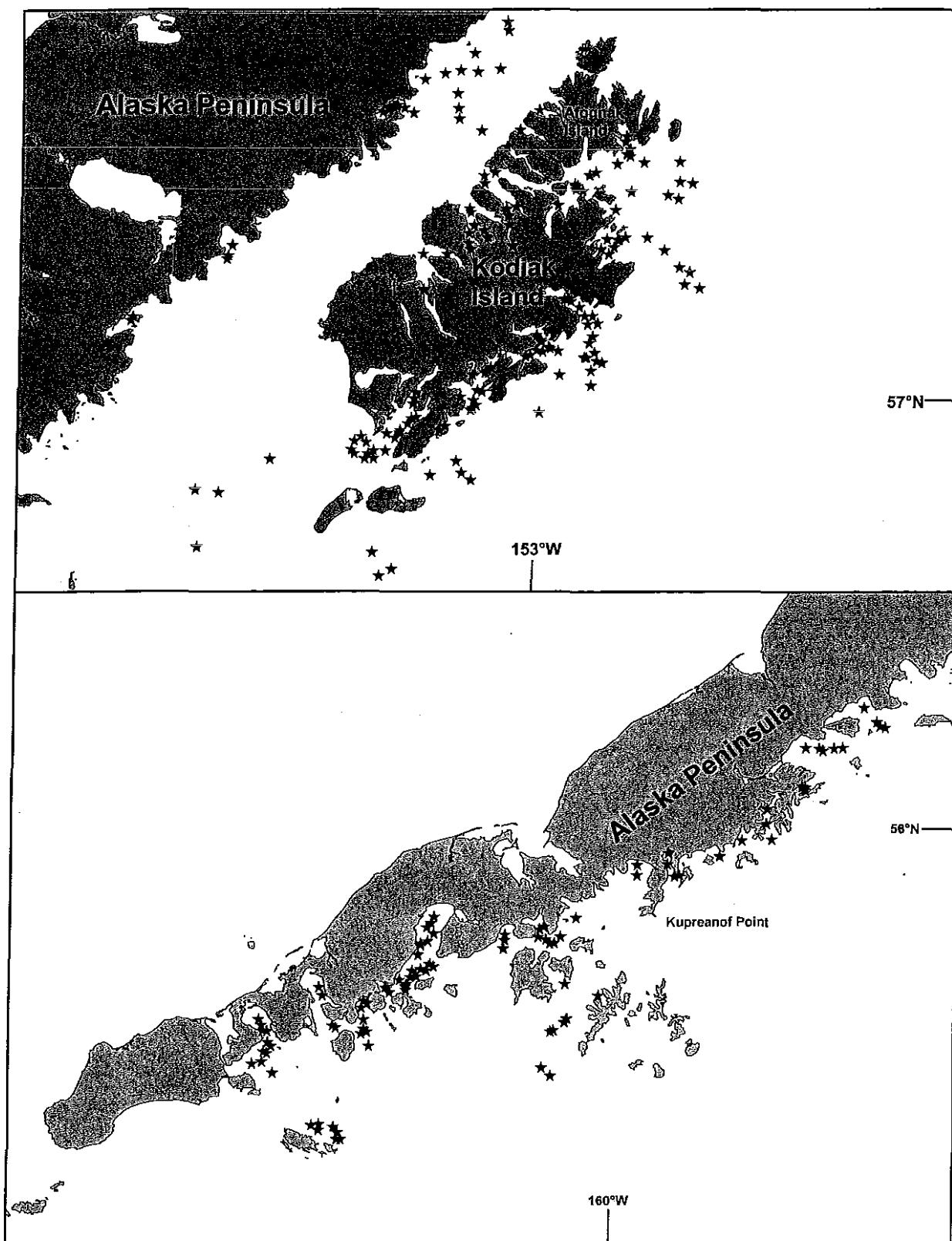


Figure 22. Tagged Pacific cod release locations from the 2001 Kodiak and Alaska Peninsula trawl survey.

APPENDIX



Appendix A. Explanation of terms.

The following definitions were developed for characterizing Tanner crab *Chionoecetes bairdi*.

Softshell	Soft exoskeleton that is newly molted; exoskeletons are thin and flexible and are not calcified; clean shell with no abrasions or scratches; the dactylus and spines are sharp with little or no wear present.
Newshell	Hard exoskeletal animal; the dorsal side of the carapace brownish-red; no apparent scratching on ventral side; epifauna absent or limited; and dactyls, pterygostomial and branchial spines sharp.
Oldshell	An apparent skip molt; carapace hard and brownish; thoracic sternum and ventral sides of legs with numerous scratches and abrasions; dactyls, pterygostomial and branchial spines worn; epifauna may be present.
Very Oldshell	An obvious skip molt; carapace hard, dark brown to blackish; thoracic sternum and ventral side of legs with multiple scratches and abrasions; underside of legs usually dark yellow-brown; dactyls, pterygostomial and branchial spines heavily worn; epifauna usually present: e.g., large barnacles.
Molting	Physiological events immediately proceeding shedding the old shell and the actual extraction from the old shell itself.
Skip Molt	A crab which has retained its exoskeleton (not molted) for more than 12 months.
Crab Measurements	Crab measurements are made in millimeters with vernier calipers and refer to carapace width (CW) inside the spines, a straight-line distance across the carapace at a right angle to a line midway between the eyes to the posterior margin. However legal size is measured outside the spines.
Prerecruit IV	Male Tanner crab less than or equal to 69 mm in carapace width and four or more molts from attaining legal size. Note that this group includes prerecruit IV, V and VI and younger crabs but are referred to a prerecruit IV's herein.
Prerecruit III	Male Tanner crab 70-91 mm in carapace width and three molts from attaining legal size.
Prerecruit II	Male Tanner crab 92-114 mm in carapace width and two molts from attaining legal size.
Prerecruit I	Male Tanner crab 115-139 mm in carapace width and one molt from attaining legal size.

-Continued-

Appendix A. (page 2 of 3)

Mature Males/Molting Mature Males	Mature males are males ≥ 115 mm. Molting mature males include 100% of new shell crab and 15% of old shell crab that are greater than size at maturity (>115 mm).
Recruit Legals	Newshell male Tanner crab 140-164 mm in carapace width, recruited to legal size in year of capture.
Postrecruit Legals	Male crab that have been legal size at least one year: defined as oldshells and very oldshells 140-164 mm and all males ≥ 165 mm in carapace width.
Total Legals	All male Tanner crab >139 mm in carapace width outside the spines.
Females	Identified as adult or immature by visual observation of abdominal flap.
Primiparous female	A new shell ovigerous female.

The following definitions were developed for characterizing king crab *Paralithodes camtschaticus*.

Carapace Length	The straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.
Legal Size	The Board of Fisheries sets the legal size of king crab. In the Kodiak Management Area, legal size is set at seven inches (178 mm) or greater in width of shell. In the Alaska Peninsula and Dutch Harbor Management Areas, legal size is set at 6 1/2 inches (165 mm). Measurements are made including the spines, as the straight line distance across the carapace at a right angle to a line midway between the eyes to the midpoint of the posterior portion of the carapace.
Juvenile Females	Nonovigerous females with carapace lengths of less than 116 mm.
Adult, Mature Females	Ovigerous females and nonovigerous females with carapace lengths greater than 115 mm.
Adult, Mature Males	Male king crabs with carapace lengths greater than 130 mm.
Newshell Males	Individuals that molted during the last molting season (generally January through April).
Oldshell Males	(Skipmolt) Individuals that failed to molt during last molting season.

-Continued-

Appendix A. (page 3 of 3)

Very Oldshell Males	(Double Skipmolt) Individuals that failed to molt during the last two or more molting seasons.
Prerecruit IV	Individuals estimated to be 4 or more years from legal size and less than 95 mm in length in the Kodiak Management Area, less than 79 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit III	Individuals estimated to be 3 years from legal size and 95-112 mm in length in the Kodiak Management Area, and 79-95 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit II	Individuals estimated to be 2 years from legal size and 113-130 mm in length in the Kodiak Management Area, and 96-115 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit I	Individuals estimated to be 1 year from legal size, which includes all sublegals greater than 130 mm in length in the Kodiak Management Area, and greater than 115 mm in length in the Alaska Peninsula.
Recruits	Newshell males which are legal size and are in their first year of availability to the fishery which includes crabs less than or equal to 164 mm in length in the Kodiak Management Area, and less than or equal to 152 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Postrecruit	Males which are legal size and old shell or very old shell or newshell males which are of greater length than recruit crab.

Appendix B. Fishing log and catch data from the Westward Region trawl survey, 2001.

Location	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month/Day/Year	N.E.KOD 6/18/01	N.E.KOD 6/18/01	N.E.KOD 6/18/01	N.E.KOD 6/18/01	N.E.KOD 6/19/01	N.E.KOD 6/19/01	N.E.KOD 6/19/01	N.E.KOD 6/19/01	N.E.KOD 6/19/01	N.E.KOD 6/20/01	N.E.KOD 6/20/01	N.E.KOD 6/20/01	N.E.KOD 6/20/01	N.E.KOD 6/21/01	
Station	CHJ	CHK	369X	CHG	CHE	CHL	CHB	CHA	CHF	313	314	285	284	257	MOLX
Longitude Start	152 23.0	152 18.1	152 3.3	152 12.0	152 27.2	152 14.5	152 22.2	152 26.0	152 20.7	151 55.4	151 49.9	151 40.1	151 45.3	151 39.6	152 10.3
Latitude Start	57 43.7	57 42.9	57 45.1	57 41.9	57 40.4	57 43.8	57 39.5	57 37.0	57 40.7	57 54.1	57 55.4	57 58.1	57 59.4	58 3.8	58 6.0
Heading, Degrees	124	292	180	90	41	52	216	35	37	0	135	332	241	270	145
Average Depth (m)	95	146	110	106	16	177	86	49	132	104	62	101	126	161	183
Distance Fished (km)	m) 1.7	1.9	1.9	1.9	1.9	1.3	1.7	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.7
Bottom Temperature (°C)	6.7	6.5	6.7	6.9	8.5	6.8	6.7	7.4	6.4	6.1	6.6	6.3	6.1	6.1	6.2
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—————kilograms/kilometers—————															
Pollock	132.6	2.1	93.8	13.5	0	4.9	9.7	68.1	8.4	0	0	292.9	94.7	1.7	0
Pacific Cod	35.4	6.5	32	61.1	37.6	8.5	0	7.9	11.1	11.8	14.5	21.1	15	0	20.8
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	1.3	0.6	0	0	0	0	0	0	2.3	0.3
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0.5	0	0	0	0	0	0	1.8	0	1.1
Sablefish	0	2.4	3.3	0	0	0	0	3	0	4.6	0	91.1	22.2	10.6	4.8
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	7.5	0	0	0
Sculpins	116.2	40.5	23.7	14.3	31.6	53.7	49.7	57.3	79.9	0	0	0	0	0	3.3
Other Roundfish	10.8	4.3	2.2	0.4	6.1	0	4.3	2.5	0.6	0	0.2	0	0	0.3	1.1
TOTAL ROUNDFISH	295	55.8	155.1	89.3	75.2	68.8	64.4	138.8	99.9	16.5	14.6	414.3	131.9	15.9	30.3
Arrowtooth Flndr	160.4	133.1	36.6	13.2	0	281.5	258.6	115.8	224.8	317.6	189	234.6	425.5	278.3	185.1
Flathead Sole	70.3	229.7	42.6	108.7	8	427	615.2	300	566.6	45.4	0.4	59.3	22.7	138.1	113.8
Rock Sole	61.9	0	3.6	2.3	241.6	0	0	17.3	0	0	57.4	0.2	0	0	0
Rex Sole	5.5	7	16.2	4.9	0	4.4	0.1	0	6.5	61.2	0	37	6.4	0	0
Dover Sole	10.7	2.6	11.8	4.9	0	14	0	2.2	0	48.8	0	13.7	24.5	11.6	0
Pacific Halibut	19.8	0	27.4	0	12.3	71.8	10.5	2.9	32.3	20.5	96.1	15.4	10.8	12.2	30.3
Starry Flndr	0	0	0	0	50.5	0	13.5	0	0	0	0	0	0	0	0
Yellowfin Sole	55.6	0	0	0	78.7	0	5.4	216.1	0	0	0	0	0	0	0
Other Flatfish	0	0	0	0	184.4	0	57.9	77.4	0	4.8	11.5	2.7	0	0	0
TOTAL FLATFISH	384.1	372.4	138.2	134	575.5	798.7	961.1	731.6	830.3	498.2	354.4	363	489.9	440.2	329.2
Skates	5.3	14.6	7.5	5.7	0	11.1	33.3	28.4	15	7	5.6	1.8	25.8	12.9	15.1
Spiny Dogfish	0	0	2.6	0	0	0	0	0	0	8.3	6.2	17.1	19.2	6.1	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	2.9	255.7	1.7	1	0	25.8	37.6	3.7	115.2	2.2	0	0.1	2.3	1.1	141.8
Red King Crab	0	0	0	0	0.1	0	3.3	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	8.1	0	0	0	0	0	0	0	0	0	0
Shrimp	1.4	5.3	0.1	0.2	0	0.1	0.3	0	8.4	0.2	0	0.1	0.5	0.3	0.2
Scallop	0.5	0	0.3	0.6	0	0	0	0.5	0	2.6	0.1	4.3	15.9	0.1	0.1
Other Inverts	356.2	37.6	116.9	501.4	308.5	76.7	73	272.3	8.5	52.2	62.5	65.4	36.4	17.6	21.9
TOTAL INVERTS	360.9	298.6	119	503.2	316.8	102.6	114.1	276.5	132.1	57.3	62.6	69.9	55.1	19.1	164
Other	128.4	7.8	0.8	1.1	13	10.3	35.7	52.3	13.9	6.9	0.8	1.4	0.9	0	6
TOTAL CATCH (kg/km)	1173.7	749.2	423.2	733.4	980.5	991.5	1208.6	1227.7	1091.2	594.1	444.3	867.5	722.9	494.2	544.6

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Appendix B. (Page 2 of 24)

Haul Location	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Month/Day/Year	N.E.KOD 6/21/01	N.E.KOD 6/21/01	N.E.KOD 6/21/01	N.E.KOD 6/21/01	N.E.KOD 6/21/01	N.E.KOD 6/21/01	N.E.KOD 6/22/01	N.E.KOD 6/23/01							
Station	MOQ 255X	255	256	283	283X	MOX	MOXX	MOPX	MOT	MOGX	MOEX	MONX	KZS	KZR	
Longitude Start	152 7.7	152 5.1	151 59.6	151 50.6	151 57.0	152 4.3	152 14.9	152 14.4	152 13.9	152 15.9	152 11.6	152 22.3	152 29.2	152 35.0	152 35.2
Latitude Start	58 3.2	58 4.5	58 3.4	58 4.3	57 59.7	57 59.6	58 12.7	58 9.3	58 6.6	58 4.4	57 56.5	57 56.9	58 1.7	58 8.2	58 7.2
Heading, Degrees	173	153	90	90	270	317	163	130	217	47	270	67	7	0	180
Average Depth (m)	154	150	130	137	170	176	128	165	168	166	201	119	190	90	119
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	0.9	1.9	1.7	1.9	1.9	1.1	1.9	1.5	1.3
Bottom Temperature (°C)	6.2	6.1	6.2	6.3	5.9	6	6.2	6	6.1	6	6.5	6.1	5.5	5.4	5.4
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—kilograms/kilometers—															
Pollock	4	0.7	0.8	0.6	4.8	0	12.6	0.6	0.5	0.1	3.9	0	0	33.7	41.4
Pacific Cod	0	11.5	0	58.4	0	0	8.7	20.3	18.7	1.4	4.8	2.5	26.6	2.3	0
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0.4	2.5	0	0	0.6	2.6	0	0.2	0.5	2.9	2.9	1	0.3	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	2.6	0.9	2.3	0	0	0	0	0	0	0	0	0	0	0
Sablefish	3.1	2.2	24.6	22.9	16.9	17.6	0	1.8	2	1.1	6	0	1.7	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	2.8	1	0.3	0	0.2	1.2	2.9	2	2.3	2.1	4.1	2.1	1.6	0.9	0.6
Other Roundfish	1.1	0	9.3	3.5	4.1	0.9	8.4	9.1	6.8	3.4	7.7	0.4	0.3	10.6	0.4
TOTAL ROUNDFISH	11.5	20.5	36	87.7	26.5	22.3	32.5	33.9	30.8	11	29.5	6.1	30.6	47.5	42.4
Arrowtooth Flndr	135.2	72.7	751.6	747.2	187.7	50.1	75	53.6	133.9	56.9	153.5	69.3	224.3	59.3	48.2
Flathead Sole	101.4	34.1	166.7	99.8	39.1	58.4	143.6	103.2	91.9	75	176.6	68.6	139	252.8	127.4
Rock Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rex Sole	0.8	0.1	1.5	15.8	0.8	0.3	1.2	9.8	3.6	4.2	0	0.9	0.6	0	0
Dover Sole	0	0	6.2	48	0	0	0	0	0	2.1	0	0	0	0	0
Pacific Halibut	13.8	24.2	38.9	8.2	16.3	14.1	21.6	22.7	4.1	8.1	6.5	42.3	35.4	16.3	0
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	15.1	0
Other Flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL FLATFISH	251.1	131.1	964.9	919	243.9	122.8	241.4	189.3	233.5	146.4	336.7	181.1	399.3	343.5	175.6
Skates	14.1	35.6	28.2	47.3	69	16.6	17.9	19.2	0	0	58.2	0	13.5	8.5	5.1
Spiny Dogfish	3.4	3.3	15.4	13.1	7.7	15	0	0	0	0	1.8	0	0	0	0
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	31.2	35.2	2.8	0.4	7.4	111.9	39.8	20.4	11.9	24	45.5	28.5	85	87.3	57.6
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0.3	0.3	0	0.3	1.5	0.4	2.6	0.3	1.7	1.7	4.6	1.4	0.8	0.8	1.9
Scallop	0.1	3.9	15	0.6	0	0	0.5	0	0	0	0	0	0	0	0
Other Inverts	22.7	64.4	7.4	6.5	16.5	48.8	37	38.8	12.2	13	55.3	5.5	16	0.6	0
TOTAL INVERTS	54.3	103.6	25.3	7.6	25.4	161.1	79.9	59.5	25.7	38.6	105.4	35.4	101.7	88.7	59.5
Other	2.1	2.8	0.3	0.2	3.4	1.3	12.6	8.4	1.2	3.8	2	6.5	4.4	4.6	7
TOTAL CATCH (kg/km)	336.5	297.1	1069.9	1075.2	375.9	339.1	384.2	310.2	291.2	199.8	533.6	229.1	549.4	492.9	289.7

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Appendix B. (Page 3 of 24)

Haul	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Location	N.E.KOD														
Month/Day/Year	6/23/01	6/23/01	6/23/01	6/23/01	6/23/01	6/23/01	6/23/01	6/24/01	6/24/01	6/24/01	6/28/01	6/28/01	6/28/01	6/28/01	6/28/01
Station	KZO	KZK	KZJ	KZG	KZF	KZE	KZC	KZA	KZB	KZD	395	420	421	444	443
Longitude Start	152 31.1	152 33.1	152 38.4	152 35.8	152 39.7	152 40.6	152 44.9	152 53.0	152 52.0	152 47.6	151 56.2	151 48.3	151 41.7	151 37.8	151 44.0
Latitude Start	58 2.5	57 58.4	57 58.1	57 56.7	57 58.1	57 55.5	57 51.6	57 46.4	57 48.6	57 52.8	57 41.6	57 36.9	57 34.8	57 31.5	57 31.6
Heading, Degrees	212	0	37	270	181	184	37	12	20	34	110	140	134	145	291
Average Depth (m)	190	168	130	132	123	104	62	38	53	91	113	128	119	165	143
Distance Fished (km)	1.9	1.9	1.9	1.9	1.7	1.3	1.3	1.5	1.1	1.5	1.9	1.9	1.9	1.9	1.3
Bottom Temperature (°C)	6.1	6.2	6.5	6.4	6.6	7.4	7.9	6.2	6.3	7.5	7.4	7.1	7.4	6.5	6.8
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	0	0.8	21.6	65.8	147.6	0	19.7	1.8	11.9	2.7	149.1	157.3	49.2	8.8	7.9
Pacific Cod	5.3	0	19.4	12.9	10.9	5.3	5.8	0	2.9	25.7	19.7	55.4	5.5	282.7	5.1
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	1.3	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0.7
Thomyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	1.7	0	0	0	3	0.2	0	15.8	0.9	3.7	0	13.9
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	1.4	10.1	17.3	0.7	47.5	0	36.3	27.6	36	57.8	127	4.2	0.4	0	0
Other Roundfish	0.4	4.7	0	0	3	0	0.2	0.1	0.1	8.1	6	1.1	0.8	0	3.2
TOTAL ROUNDFISH	8.4	15.7	58.9	81.3	208.9	5.3	62	32.6	51.1	94.2	317.6	218.9	59.6	291.6	30.9
Arrowtooth Flndr	202.3	202.1	231.4	442.5	239.1	85.7	152.6	0.5	8.7	316.7	126.6	89.4	57.2	61.4	143.9
Flathead Sole	96.7	204.9	118.9	173.1	84.3	396.2	310	147.7	394.7	105.9	482.2	25.1	31.8	58.1	187.5
Rock Sole	0	0	0	0	3	0	25.3	33.6	0	0	41.9	0	0	0	3
Rex Sole	1.2	9.7	2	1	3.6	0	0	0	0.1	2.1	12.3	27.4	44.1	13.9	0
Dover Sole	0	0	4	2.2	1.2	0	0	2.1	0	3.7	176.8	3.9	19.5	0	2.5
Pacific Halibut	17.4	7.7	20.5	0	51.1	3.2	49.6	0	0	27.8	15.7	29.8	84.5	5.4	34.8
Starry Flndr	0	0	0	0	0	0	0	52.8	19.5	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	27.8	77.9	173.9	0	0	0	0	0	0
Other Flatfish	0	0	13.9	0	0	0	8.3	6.1	0	0	70.5	0	0	1.3	0
TOTAL FLATFISH	317.6	424.4	390.7	618.8	382.1	485	573.6	320.8	596.9	456.1	925.9	175.6	237.2	140	371.6
Skates	7.7	35.1	24.8	5.9	0.4	20.8	91.8	0	0	9.6	18.3	12.5	22.4	29.7	33.8
Spiny Dogfish	0	0	0	0	0	0	2.5	0	0	0	5.7	3.2	3.6	2.1	1.7
Other Elasmobrnf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	43.2	37.9	46.5	107.1	64.8	13.1	2.6	4.7	5.1	401.1	0.1	0	7	7.5	14.8
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0.1	0.3	0	0	0	0	0	0	0
Shrimp	4.6	4.4	5	1	1.2	0.4	0	0	0	0	0	0.5	1	0	0
Scallop	0	0	0	0	0.1	0.1	3	0	0	1	0	3.7	2.9	4.6	0.5
Other Inverts	16.2	3.1	50.5	62.5	23.6	147.9	652.3	1.1	38.5	78.3	105.6	49.3	86.5	79.2	19.9
TOTAL INVERTS	63.9	45.3	101.9	170.6	89.7	161.6	657.9	6.1	43.6	480.3	105.6	53.5	97.4	91.3	35.2
Other	2	15.7	9.9	9.4	17.8	194.7	64.3	2.9	18.9	27.2	9.6	4.2	0.4	10.6	2.1
TOTAL CATCH (kg/km)	399.6	536.3	586.2	685.9	699	867.5	1452	362.4	710.5	1067.5	1382.8	457.9	420.6	565.2	475.3

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Appendix B. (Page 4 of 24)

Haul	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Location	E.KOD														
Month/Day/Year	6/29/01	6/29/01	6/29/01	6/29/01	6/29/01	6/29/01	6/29/01	6/29/01	6/29/01	6/30/01	6/30/01	6/30/01	6/30/01	6/30/01	6/30/01
Station	UGF	UGG	UGJ	486B	511A	511B	510B	486A	UGI	UGE	UGM	510C	534B	535A	535B
Longitude Start	152 34.2	152 29.9	152 27.5	152 25.5	152 28.7	152 24.8	152 31.5	152 29.6	152 32.2	152 36.9	152 32.4	152 32.9	152 32.7	152 27.6	152 24.9
Latitude Start	57 24.2	57 23.1	57 22.3	57 19.8	57 13.2	57 12.7	57 15.8	57 17.5	57 20.9	57 25.1	57 20.0	57 13.0	57 11.9	57 10.9	57 10.5
Heading, Degrees	180	90	184	185	153	0	321	34	352	123	180	204	180	168	169
Average Depth (m)	90	68	71	71	97	77	99	99	95	97	104	91	104	137	124
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	0.9	1.9	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	6.7	7.7	7.7	7.7	7.2	7.3	7.2	7.5	6.5	6.3	7.1	7.3	7.2	7.2	7.2
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—————kilograms/kilometers—————															
Pollock	37.2	49.9	99.7	124.6	0	0	204	155.7	25.5	87.8	36.1	0.2	3.3	334.6	78.2
Pacific Cod	24	26.6	37.7	7.4	12	0	35.3	64.1	32.3	28.3	56.3	6.3	7.5	114.1	96
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0.7
Rougheye Rkfish	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0.2	0	0	0	0	0	0.1	0	0	3.9	0.4
Sablefish	0	0.3	0	0	0	0	0	0	0	0	0	0	0	2.2	1.2
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	44.5	0	1.8	0.2	145.6	18.8	0.1	2.9	0	4.1	13.2	32.3	0
Other Roundfish	1.5	10.3	8.9	3.6	0	0.3	5.6	39.3	1	0.6	1.6	0	0.2	0.5	0
TOTAL ROUNDFISH	62.6	87.1	190.8	135.6	14	0.5	390.4	278	59	120.2	94.1	10.5	24.2	488.6	176.6
Arrowtooth Flndr	111.7	28.5	80	108.9	402.5	87	112.4	211.1	71.7	273.4	147.6	241.1	375.7	463	492.2
Flathead Sole	79.8	3.2	29.9	37.1	161.1	1.3	189.9	429.4	60	159	168.1	85.8	209.1	244.5	70.7
Rock Sole	0	12.1	15	174.5	12.4	74.3	30.9	181.2	0	0	0	54.8	0	0	3.6
Rex Sole	0	0	0	0	10.6	0.2	11.2	24.9	0	0	0	2.5	31.1	87.7	60.4
Dover Sole	0	0	0	0	1.2	0	1.1	0	0	0	0	1.5	44.2	51.9	20.9
Pacific Halibut	24	68.4	141.7	26.6	5.4	15.4	27	33	40.9	129.8	51.2	5.7	8.2	18.6	22.7
Starry Flndr	0	0	0	33.7	0	0	0	0	17.6	0	0	0	0	0	0
Yellowfin Sole	0	4.6	4.7	0	0	0	0	0	0	0	0	0	0	0	0
Other Flatfish	14.5	3.2	88.3	356.7	69.4	35.9	0	32.1	2.4	11	0	3.6	2.9	0	6.3
TOTAL FLATFISH	230	120.1	359.6	737.5	662.7	214.1	372.6	911.7	192.6	573.2	366.9	395	671.2	865.7	676.9
Skates	51.2	60.4	27.1	49.4	18.3	5.2	63.8	83.4	96.1	67.9	162.5	8.6	13.9	28.2	68.8
Spiny Dogfish	0	2.3	5.8	3.3	3	4.7	1.4	2.4	0	0	2.1	0	3	1.6	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	4.6	0.2	0.3	0	27.3	0	89.7	8.8	29	715.3	10.8	0.2	1.3	14.5	1.4
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0.8	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0
Scallop	3.1	0	0	0	1.3	2.4	0.2	0	1.2	1.4	1.6	0	1.7	1.6	0
Other Inverts	68.9	388.5	204.9	52	119.5	90.7	179.3	90.9	44.7	30.2	20.7	40.5	31.4	1.7	35.9
TOTAL INVERTS	77.4	388.7	205.2	52	148.1	93.1	269.1	99.6	75.3	746.9	33.1	40.6	34.4	17.8	37.3
Other	112.4	22.3	2.8	0.2	0.3	0	6.7	15.5	10.8	0.4	1.2	0	0	2	0
TOTAL CATCH (kg/km)	533.6	680.9	791.3	977.9	846.5	317.6	1104.1	1390.6	433.8	1508.6	659.8	454.8	746.6	1403.8	959.5

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Appendix B. (Page 5 of 24)

Raul	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Location	E.KOD														
Month/Day/Year	6/30/01	6/30/01	7/1/01	7/1/01	7/1/01	7/1/01	7/1/01	7/1/01	7/1/01	7/2/01	7/2/01	7/2/01	7/2/01	7/2/01	7/2/01
Station	535D	535C	534D	560	561	589	621	656	696	559	533A	533B	KLL	KLD	KLH
Longitude Start	152 24.3	152 28.0	152 30.4	152 30.4	152 26.0	152 26.1	152 26.6	152 25.2	152 25.6	152 44.6	152 46.1	152 43.8	152 46.3	152 44.7	152 54.5
Latitude Start	57 8.5	57 7.9	57 8.3	57 4.3	57 4.7	57 0.1	56 64.7	56 50.9	56 46.0	57 5.2	57 7.2	57 9.2	57 12.5	57 16.8	57 13.5
Heading, Degrees	180	0	0	203	202	207	211	180	211	22	14	38	300	207	270
Average Depth (m)	139	148	126	141	148	135	157	165	176	152	141	141	132	26	119
Distance Fished (km)	1.9	1.9	1.3	1.3	1.3	1.3	1.1	1.1	1.3	1.7	1.9	1.7	1.7	1.5	1.5
Bottom Temperature (°C)	6	6.4	6.1	5.8	5.8	5.8	5.7	5.7	5.9	6.5	6	7.3	8.8	7	
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	604.6	482.3	1523.5	7.4	4	0	0	0	0	2.9	10.3	416.8	111.7	0	6.3
Pacific Cod	7.4	59.1	41.2	15.5	2.6	0	0	0	0	0	16.3	29.6	78.3	0	5.5
Pac Ocean Perch	0.8	0.8	0.4	0	0	0.3	0.4	1.2	0	0.2	0.6	0	0	0	0
Rougheye Rkfish	0	3.6	0	0	0.1	0	0	0.7	0.5	0	0.6	0.4	0.8	0	0
Thornyhead Rkf	0	0	0	0	0	0	0	0	4.2	0	0	0	0	0	0
Other Rockfish	0.5	0.2	0	0	0	3	0.9	2.7	0.4	0	0	0	0	0	0
Sablefish	8.1	10.9	3.4	6.6	15.5	12	14	6.5	2.5	1.5	7.9	2.1	0	0	0.4
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	8.1	0	0	0	0	0.4	1.3	0.1	0.5	0	0	0	0	0.1
Other Roundfish	0	6.5	0	6.1	0	0	0	0.3	0.2	6.7	8.2	13.1	31.7	0	21.8
TOTAL ROUNDFISH	621.4	571.7	1568.4	35.6	22.3	15.4	15.7	12.6	7.9	11.8	43.8	462.2	222.4	0	34.1
Arrowtooth Flndr	606.7	753.4	284.8	1681.3	2123.5	1252.7	1135.3	1143.5	117.7	1076.2	763.8	600.1	510.1	0	178.8
Flathead Sole	94.7	498.6	21.5	95.6	103.7	44.8	12.6	27.8	6.5	24.8	246	237.1	42	0.3	693.1
Rock Sole	0	0	0	0	0	0	0	0	0	0	0	8.4	0	118.3	0
Rex Sole	39.4	43.7	51.1	0.6	0.8	38.6	2.8	0	0.1	3.7	16.5	9.9	6.2	0	0
Dover Sole	52.2	0	12.1	0	0	0	0	0	0	19	23.7	0	0	0	0
Pacific Halibut	24.6	13	13	4.1	42	0	0	0	0	72.4	54.3	0	32.5	20.9	0
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	72.6	0
Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flatfish	0	0	0	0	0	0	1.6	0	0	0	0	0	0	2.1	0
TOTAL FLATFISH	817.6	1308.7	382.5	1781.7	2269.9	1336.1	1152.3	1171.3	124.3	1196.2	1104.4	855.4	590.8	214.2	871.9
Skates	35.3	27.1	25.5	21.7	20.4	11.2	8.7	6.7	23.9	22.7	92.5	10.6	24.2	13.7	49
Spiny Dogfish	0	2.8	1.6	0	0.4	5.6	8.2	0	0	2.2	2.5	1.7	0	0	0
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	7	14.5	3	16.9	26	19	63	16	13.4	19.1	6.1	0.1	0.8	0	179
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	1.3
Shrimp	0	0	0	0	0	0	0	0.5	1.7	1.9	0.5	0.5	0.1	0	13.8
Scallop	0.7	0.1	0	8.6	19.3	9.5	1.7	0	0	2.6	10.3	1	0.2	0	6.5
Other Inverts	3.2	65.2	2	3.4	3.5	3.1	12	23	6.3	71.1	59.2	101.4	65.4	16.5	25.8
TOTAL INVERTS	11	79.8	5.1	28.9	48.8	31.7	76.8	39.6	21.4	94.6	76.1	103	66.4	23.1	226.3
Other	0	0	0	0	0	0	0	1.3	0.7	9.2	0.5	0	7.7	3.7	0.5
TOTAL CATCH (kg/km)	1485.3	1990	1983.1	1867.9	2361.9	1400	1261.6	1231.5	178.3	1336.8	1319.7	1432.9	911.6	254.6	1181.8

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Appendix B. (Page 6 of 24)

Haul	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	7/2/01	7/2/01	7/3/01	7/3/01	7/3/01	7/3/01	7/3/01	7/4/01	7/4/01	7/4/01	7/4/01	7/4/01	7/4/01	7/5/01	7/5/01
Station	KLG	KLI	UGAC	UGAB	UGAA	UGB	UGC	UGD	588	620	655	695	654	587	619
Longitude Start	153 0.0	152 51.5	152 59.8	152 53.8	152 51.5	152 45.4	152 42.2	152 36.6	152 36.7	152 34.7	152 33.8	152 34.2	152 43.1	152 42.6	152 45.0
Latitude Start	57 12.4	57 14.6	57 27.4	57 28.5	57 29.8	57 28.3	57 27.6	57 25.7	57 0.0	56 54.3	56 51.0	56 44.4	56 51.3	56 58.9	56 55.4
Heading, Degrees	62	130	45	90	130	180	123	293	180	180	180	35	314	180	202
Average Depth (m)	117	117	31	64	77	90	93	95	150	154	148	139	99	143	128
Distance Fished (km)	1.7	1.1	1.1	1.3	1.9	1.9	0.9	0.9	1.3	1.5	1.9	1.3	1.1	1.5	1.9
Bottom Temperature (°C)	6.7	7.4	5.6	5.6	5.3	6.8	6.9	7.5	5.7	5.7	6.1	6.5	6.1	6.3	
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—————kilograms/kilometers—————															
Pollock	2.7	60.2	23.7	24.1	35.6	79.8	61	33.8	0.6	0	0	0.7	0	0.5	0
Pacific Cod	0	39.5	0	0	0	9.8	17.4	25.4	0	0	0	0.9	0	0	0
Pac Ocean Perch	0	0	0	0	0	0	0	0	52.6	1.2	0	0	0	0	0
Rougheye Rkfish	1.2	0	0	0	0	0	0	0	5.9	14.4	0.5	0	0	0.3	0.1
Thomyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	21	0	1.3	0.2	0	1.1	0.3
Sablefish	0	0	0	0.2	1.9	0	0	0	2.8	0	11.4	4.2	0	0	1.2
Herring	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	3.7	0	3.2	24.2	29	12.6	32.7	5.1	4.2	0.4	1.4	0.2	0	4.7	1.3
Other Roundfish	6.9	0	5	2.3	3.3	8	2.1	5.5	1.7	0.5	0	0.1	0	3.4	2.1
TOTAL ROUNDFISH	14.6	99.7	35.9	50.7	69.8	110.2	113.1	69.9	88.9	16.4	14.7	5.5	0.9	9.9	4.9
Arrowtooth Flndr	153.8	190.9	1	15.3	43.3	82.4	177.7	22.8	445.6	308.5	427.9	245.3	520.7	405.2	291.3
Flathead Sole	290.9	102.7	11.4	23.5	75.8	554.1	93.2	39	20.8	30.3	26.7	7.3	18.7	38.5	18.4
Rock Sole	1.3	0	0	2.5	3.9	0	0	1	0	0	0	0	0	0	0
Rex Sole	2.1	36.2	0	0	0	0	0	0	0	0	0.7	0	204.3	1.4	0.7
Dover Sole	0	0	0	0	0	0	0.8	0	0	0	0	0	145.2	20.9	0
Pacific Halibut	19.5	25.9	0	96.4	36.7	132	17.4	99.9	47.7	0	0	29.5	35.7	29.7	13.1
Starry Flndr	9.8	0	40.3	8	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	651.5	147.4	163.1	46.9	3.3	0.9	0	0	0	0	0	0	0
Other Flatfish	0	0	0	8.5	0	18.3	0	2.3	0	0	0	0	0	0	0
TOTAL FLATFISH	477.4	355.6	704.2	301.7	322.7	833.8	292.5	166	514.1	338.8	455.3	282.1	924.6	495.8	323.5
Skates	3	36.1	0	0	0.2	69.1	0.1	232.3	17.2	11.9	16.4	13.7	36.8	34.3	28.8
Spiny Dogfish	0	0	0	2.7	3.7	1.3	0	0	2.3	0	0	2.4	5.1	4.4	4.5
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	160.2	7.1	15.4	21.4	92.1	206.3	99.9	505.8	12.7	14.5	34.2	18.3	0.9	10.1	21.8
Red King Crab	0	0	0	0	21.7	0	5.6	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	2.1	0	0	0	0	0	0	0	0	0
Shrimp	1.3	0	0	0	0	0.2	1.2	0.5	3.4	3	4.8	0.4	0	6.1	1
Scallop	0.9	0.3	0	0	0	29.9	1.9	1.4	0	0	4.2	88	0.1	2.2	
Other Inverts	87.6	634	11.9	45	2.5	44.6	211	16.3	23.3	3	34.3	23.4	33.1	22.3	1.8
TOTAL INVERTS	250.1	641.4	27.4	66.4	116.3	283.1	319.8	524	39.4	20.5	73.3	46.5	122	38.6	26.8
Other	6.3	3.9	37.8	5.5	0	19.5	7.1	1.6	2.8	0.9	5.5	2.6	0	1.4	0.7
TOTAL CATCH (kg/km)	751.4	1136.8	805.2	427.1	512.6	1317	732.6	993.9	664.7	388.5	585.2	352.8	1089.4	584.4	389.1

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Appendix B. (Page 7 of 24)

Haul	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Location	S.E.KOD	S.E.KOD	S.E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD
Month/Day/Year	7/5/01	7/5/01	7/5/01	7/5/01	7/6/01	7/6/01	7/6/01	7/6/01	7/6/01	7/7/01	7/7/01	7/7/01	7/7/01	7/7/01	7/7/01
Station	618A	586	585X	KLA	KLB	KLF	KLE	THN	THM	THL	THH	THJ	THK	THI	
Longitude Start	152 51.2	152 55.6	153 1.3	153 4.5	152 58.9	152 56.4	153 3.1	153 8.5	153 20.1	153 21.2	153 23.0	153 24.2	153 27.2	153 29.6	153 35.1
Latitude Start	56 55.5	56 57.0	56 56.9	57 18.3	57 18.5	57 17.8	57 12.1	57 10.5	57 8.9	57 7.8	57 2.7	57 3.5	57 8.7	57 4.0	
Heading, Degrees	14	40	80	90	159	149	255	45	186	221	224	180	338	189	123
Average Depth (m)	117	128	135	91	80	90	121	112	110	123	119	97	113	101	90
Distance Fished (km)	1.9	1.9	0.9	1.9	1.7	1.9	1.9	1.9	1.3	1.1	1.3	1.3	1.5	1.5	1.7
Bottom Temperature (°C)	6.7	6.8	6.8	4.9	7.4	7.4	7	6.9	5.9	5.9	5.8	6.7	6.3	5.9	6.4
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	10.6	58.6	2	74.5	47.1	26.3	7.2	42.8	619.1	108.9	135.7	52.3	80.2	42.2	480.1
Pacific Cod	0.5	5	0	0	30.8	32.8	13.1	344.8	35	43.4	17.2	0.8	19.8	80.6	7.3
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	1.5	19.8	1	0.3	2.1	0	1.9	0
Thorny head Rkf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0.4	0	1	0	0	0	0	0
Sablefish	1.7	5.1	0	1.3	0	0	0	0	0	0	0	1	0	0.3	0.1
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0.1	0	2.1	31.2	38.1	9.9	0	105.4	38.5	19.4	19.2	2.4	86.1	39.6
Other Roundfish	4.4	11.1	5.3	0	0.3	0.6	0	11.4	0	2.2	4.8	1.5	9.2	2.3	1.6
TOTAL ROUNDFISH	17.2	79.8	7.4	77.9	109.3	97.8	31.6	419.3	760.4	194.2	179.2	74.8	113.5	211.4	528.6
Arrowtooth Flndr	218.6	281.2	187.2	44.2	100.9	78.5	525.6	873.7	469.8	538.9	294.2	88.5	268.6	235.8	110.4
Flathead Sole	84.7	133.5	230.7	59.4	110.4	196.6	221.9	311.7	511.5	342.6	568.2	167.2	320.7	472.3	325.3
Rock Sole	0	0	0	0	0	0	0	0	0	0	0	1	2.2	1.8	0
Rex Sole	42.4	11.9	10.1	0	0	0	1.2	23.4	11.5	1.5	16.3	0	17.4	2.1	0.9
Dover Sole	34.4	0	39.1	0	0	0	0	0	6.3	7	7.8	0.3	3.7	5	0
Pacific Halibut	6.7	9.7	39.7	0	41.5	26.1	30.1	127.1	28	21	4	17.5	18.1	7.7	47.2
Starry Flndr	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	2.7	0	0	0	7.8	0	0	50.4	4.4	0	69.4
Other Flatfish	0	0	0	0	0	0	0	0	3.1	0	7.8	5.7	11.8	0	0
TOTAL FLATFISH	386.7	436.1	506.9	103.6	255.6	314.3	778.7	1335.9	1038.1	911.1	898.3	330.6	647	724.6	553.1
Skates	10.5	8.1	8.9	0	94.6	104.9	15.9	13	0	0	49.5	0.2	9.1	0	6.9
Spiny Dogfish	7.1	0	5.7	0	0	1.5	0	2	0	0	0	0	0	0	0
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	2.8	1.3	1	4.9	22.9	11.4	54.8	424.1	66	28.9	19.9	1.4	48.2	66.4	22.1
Red King Crab	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Dungeness Crab	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
Shrimp	0.2	1.2	0	0	4.9	5.1	0.8	0.1	0	1	0.8	0	0.1	0	1
Scallop	3.3	0.5	2.4	0	18.4	50	0.9	1.3	2.3	0	0	1.9	1	0	1.2
Other Inverts	34.2	81.6	41.9	0.8	207.8	116.4	14.9	1.4	14.1	29.7	11	46.4	146	74	125
TOTAL INVERTS	40.5	84.6	45.3	5.7	254.5	182.9	71.5	426.8	82.3	59.7	31.7	50.7	195.2	140.4	149.4
Other	3.2	3.9	1.6	2.1	5.4	0.6	1.3	2.3	42.8	10.5	0	15.4	4.8	10.7	8.5
TOTAL CATCH (kg/km)	465.3	612.5	575.8	189.3	719.4	701.9	899.1	2199.2	1923.6	1175.5	1158.6	471.6	969.6	1087.1	1246.5

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Appendix B. (Page 8 of 24)

Haul	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Location	S.E.KOD														
Month/Day/Year	7/7/01	7/7/01	7/7/01	7/7/01	7/8/01	7/8/01	7/8/01	7/8/01	7/8/01	7/8/01	7/8/01	7/8/01	7/9/01	7/9/01	7/9/01
Station	THF	THG	THD	THC	688	726	727	759	760	761	728	729	THA	614	615
Longitude Start	153 35.0	153 27.1	153 28.9	153 29.8	153 39.4	153 35.2	153 29.2	153 34.3	153 27.1	153 18.2	153 18.4	153 11.2	153 42.6	153 27.7	153 24.9
Latitude Start	57 1.2	57 1.0	56 59.5	56 57.7	56 43.4	56 41.8	56 40.4	56 32.9	56 33.9	56 36.7	56 39.1	56 39.9	56 53.3	56 54.6	56 55.2
Heading, Degrees	64	222	180	180	90	159	164	177	0	90	90	0	62	0	177
Average Depth (m)	75	124	130	132	150	154	146	144	130	141	146	148	49	139	137
Distance Fished (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.1	1.3	1.3	1.3	1.3	1.9	1.9
Bottom Temperature (°C)	6.3	6.4	6.4	6.3	6.2	6.2	5.9	6	6.1	5.8	5.6	5.5	7.8	7	6.8
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—kilograms/kilometers—															
Pollock	162.2	126.5	248.6	325.2	41.1	22.9	2.5	1.4	0	1.4	0	0	23.5	53.9	203.1
Pacific Cod	25.1	19.3	49.9	22.8	3.3	23.9	46.9	0	0	0	0	0	10.7	9.4	0
Pac Ocean Perch	0	0	0	0	0	0	1.3	0	0	0	0	0	0	0	0
Rougheye Rkfish	0.1	0	0	6.6	0	0	4.2	0.1	2.2	1	0.6	5.6	0	1.2	0.4
Thorny head Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	3.1	0	0	0	0	0.6	0	0	0
Sablefish	2.4	0	0	0	0	1.7	0	0	0	0	0	0	1.9	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	5	19.5	0.6	11.9	2.4	0	0	0.6	1	1.7	2.2	5	16.8	12.8	11.1
Other Roundfish	3	4.3	6	8.3	11.5	23.1	1.4	3.9	0.9	0.6	0.4	0	2.9	5.5	19.9
TOTAL ROUNDFISH	197.8	169.6	305.1	374.9	58.3	71.6	59.5	6	4.1	4.7	3.2	11.3	55.8	82.7	234.5
Arrowtooth Flndr	168.9	176.9	308	377.9	258	205.4	192.6	296	186.1	256.1	206.9	243.7	27.7	320.7	247.5
Flathead Sole	218.7	151.4	130.3	146.4	225.5	61.2	57.8	32.1	49.4	42.9	107.7	77.9	102.8	161.5	61.6
Rock Sole	0	0	3.1	5	0	0	0	0	0	0	0	0	46.8	0	4.4
Rex Sole	0	9.8	18.8	22.4	0	19.2	0.1	1.8	3.1	4.3	1.8	4.1	0	18.3	20.2
Dover Sole	1.7	3	1.5	14.7	1.8	0	0	0	0	0	0	0	0	8.8	10.1
Pacific Halibut	4.1	16.2	4.9	26.4	41.6	12.5	3	0	0	0	7.6	0	27.3	17.9	17.4
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	51.7	0	0	0	0	0	0	0	0	0	0	0	366.2	0	0
Other Flatfish	5.4	2.2	2.3	5.3	3.3	4.6	0	0	0	0	0	0	105.7	0	0
TOTAL FLATFISH	450.5	359.4	468.8	598.2	530.2	303	253.5	329.9	238.6	303.3	323.9	325.7	676.6	527.2	361.2
Skates	11	29.2	0.9	4	71.9	42.2	16.2	20.2	4.5	10.1	25.8	12.5	14.4	15.1	21.3
Spiny Dogfish	0	2.2	0	0	3	2.1	3.4	4.1	0	0	0	0	4.9	1.3	10.9
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	29.4	4	7.9	12.9	3	2.6	8.3	2.6	15.4	32.2	41.8	41	1	34.4	10.6
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
Shrimp	0.7	0.6	0.6	0.1	2.6	0.5	1.3	2	0.9	1.5	0.8	3.8	0	0	0
Scallop	5.5	2.2	0.1	0	0.1	0	1	0.1	2.4	0.4	5.4	4.5	8.2	0.7	5.7
Other Inverts	119.3	188.3	29.5	27.9	49.6	20.1	32.6	27.7	50.4	4.4	12.2	8	238.6	101.4	61.2
TOTAL INVERTS	154.9	195	38.1	40.9	55.3	23.3	43.2	32.3	69.1	38.5	60.2	57.2	248.3	136.5	77.5
Other	18.7	12.2	25.7	2	1.5	2.1	0.1	0.8	2.3	7.2	2.8	1.8	2.6	2.1	4.4
TOTAL CATCH (kg/km)	832.9	767.6	838.6	1020	720.3	444.3	375.9	393.2	318.6	363.9	415.9	408.5	1002.7	765	709.8

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Appendix B. (Page 9 of 24)

Haul	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.W.KOD	S.W.KOD								
Month/Day/Year	7/9/01	7/9/01	7/10/01	7/10/01	7/10/01	7/10/01	7/11/01	7/11/01	7/11/01	7/11/01	7/11/01	7/11/01	7/11/01	7/12/01	7/12/01
Station	651	725	892	891	858	920	881X	815X	748X	750X	676X	677X	678X	ALD	ALC
Longitude Start	153 14.9	153 49.6	154 6.7	154 12.1	154 16.1	154 24.1	155 47.4	155 46.0	155 45.2	155 35.5	155 28.1	155 19.2	155 10.3	154 11.4	154 7.8
Latitude Start	56 50.8	56 40.0	56 15.2	56 13.9	56 19.9	56 8.7	56 15.7	56 20.7	56 34.0	56 35.4	56 37.6	56 41.6	56 44.3	56 52.7	56 49.3
Heading, Degrees	142	54	247	227	272	192	3	38	343	24	27	28	16	186	20
Average Depth (m)	174	97	135	126	90	141	71	75	229	190	150	113	80	57	68
Distance Fished (km)	1.9	1.9	1.9	1.9	0.9	1.7	1.9	1.5	1.5	1.5	1.3	1.3	0.9	1.9	1.3
Bottom Temperature (°C)	5.8	7	5.6	5.4	7.2	5.7	7.5	6.1	5.7	5.7	5.7	5.6	6.4	6.7	6.5
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	1.7	1.2	0	1.3	0	0	0	0	2.5	1.6	1.1	0	0	43.5	28.7
Pacific Cod	0	2.6	13	16	160.4	0	0	20.4	7.5	2.1	0	0	25.9	7.3	46.6
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	1.3	0	0	0	0
Rougheye Rkfish	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	3.3	4.2	1.5	0	0	1.4	2.7	0	0	0	0	0
Sablefish	0	0.6	16	12.3	0	5.8	0	0	14.4	55.3	35.4	6.2	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	1.3	21.8	0	0	0	0	0	0	0	0.3	0	0	14.6	11.9	15.4
Other Roundfish	0.1	13.4	0	0.5	3.1	0	0	0	3.3	0.2	0.7	16.4	6.4	4.1	4.8
TOTAL ROUNDFISH	3.2	39.7	29	33.5	167.7	7.3	0	20.4	29.1	62.3	38.5	22.5	46.9	66.8	95.5
Arrowtooth Flndr	443.5	317.8	312	620.8	109.4	453	2.2	13.5	116.7	101.3	137.6	831.9	605.3	18	16.8
Flathead Sole	39	49	16.4	83.5	53.3	13.5	0.4	20.4	0.8	20.2	20.6	51.7	51.2	79	100.6
Rock Sole	0	62	0	0	210	0	14.1	0.9	0	0	0	0	0	0	0
Rex Sole	0.3	2.7	43	214.1	1.6	125.5	0	0	0	8.7	0	13.8	28.3	0	0
Dover Sole	0	4	0	175.5	0	20.6	0	0	0	16.1	13.8	16.4	12.8	0	0
Pacific Halibut	0	16.4	21.3	46.7	0	2.2	10.2	73.3	21.8	0	9.5	10.4	21.6	6.3	7.7
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	33.9	49.6
Other Flatfish	0	8.5	0	0	26	0	44.5	62.7	0	0	0	0	0	0	136.6
TOTAL FLATFISH	482.7	460.3	392.7	1140.7	400.2	614.8	71.4	170.9	139.3	146.3	181.5	924.2	719.3	137.3	311.3
Skates	18.7	38	93.4	65.8	4.9	19	6.7	69.9	68.2	41.6	5.6	54.1	46.7	0	0.7
Spiny Dogfish	1.8	2.1	0	4.6	2.6	2.1	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	12.4	0	0	0	0	0
Tanner Crab	25.1	0.1	0.1	0.2	0	3.7	0	0	1.4	0.4	0.4	0.8	0.5	43.1	72.9
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.7
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	1.6	0	0.9	0	0	2.4	0	0	0.8	0.3	0.1	0	0	2.4	1.4
Scallop	0.1	5	0.1	0.2	0	0.5	0.6	0.4	0	0.4	0.4	0	0	13.3	2.5
Other Inverts	9.8	17.2	11.7	27.3	27.8	15.2	2	126.7	11.3	8.8	8.8	29.7	33	5.3	37.7
TOTAL INVERTS	36.5	22.4	12.8	27.7	27.8	21.3	2.5	127.3	14	9.5	9.6	31	33.5	64.2	130.3
Other	24.9	2.7	0.6	5.4	1.3	17	0.4	0	4	1.4	1.2	4.3	9.1	7.8	30.5
TOTAL CATCH (kg/km)	567.8	565.2	528.4	1277.6	604.5	681.5	81	388.5	254.6	261.2	248.8	1036.1	855.5	276	568.2

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Appendix B. (Page 10 of 24)

Haul	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD
Month/Day/Year	7/12/01	7/12/01	7/12/01	7/12/01	7/12/01	7/13/01	7/13/01	7/13/01	7/13/01	7/13/01	7/13/01	7/13/01	7/14/01	7/14/01	7/14/01
Station	ALB	ALH	ALI	ALL	ALG	ALF	ALA	684B	684A	683B	683D	684C	646D	646B	646A
Longitude Start	154 13.6	154 7.4	154 5.9	154 5.1	154 5.6	154 9.9	154 7.9	154 12.4	154 16.5	154 22.8	154 22.8	154 19.9	154 19.8	154 22.8	154 24.8
Latitude Start	56 50.5	56 52.9	56 54.1	56 55.4	56 51.6	56 52.4	56 47.8	56 46.5	56 46.0	56 46.1	56 44.4	56 44.2	56 48.8	56 50.0	56 50.5
Heading, Degrees	119	30	14	43	37	180	204	231	309	125	125	76	270	0	285
Average Depth (m)	38	66	80	82	57	57	55	75	44	59	69	69	55	59	64
Distance Fished (km)	1.9	1.9	1.3	0.9	1.3	1.5	1.1	1.3	1.9	1.7	0.9	1.1	1.9	1.9	1.3
Bottom Temperature (°C)	8.1	4.9	4.5	4.5	6.4	6.2	7.1	9.5	9.1	8.8	8.8	9	9.3	9.4	8.9
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—————kilograms/kilometers————															
Pollack	8.7	96.1	61.3	71.5	227.4	35.1	40.6	24.3	21.3	27.3	116.8	20.3	7	15.9	11.5
Pacific Cod	0.8	1.6	43.7	4.5	4.9	19.2	4.1	37.1	2.4	2.7	22.9	11.7	27.8	217.1	12.8
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
Thornyhead Rkfsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0.3	0	6.1	0	0	0	0.2	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	16.1	25.8	46.4	1.6	11.2	20.7	0	0	4.3	0.8	3.5	9.9	0.1	13.8	2.6
Other Roundfish	1.7	12.5	22.2	14.5	1.4	2.5	1.8	4.6	4.3	9.6	8.7	4.3	1.5	3	4.8
TOTAL ROUNDFISH	27.6	135.9	179.7	92.2	244.9	77.4	46.7	66	32.5	40.4	151.8	46.3	36.4	249.9	32.1
Arrowtooth Flndr	14.3	16	8.7	12.2	13.5	11.4	22.1	6	4.8	29.8	112.1	46.7	13.4	8.8	22.8
Flathead Sole	15.1	63.1	143.9	109.9	39.8	28.1	78	113.2	9.1	49.2	96.6	79.6	72	51.8	91.5
Rock Sole	15.1	0	0	0	1.1	0	5	2.6	0	0	0	0	0	0	0
Rex Sole	2.6	0	0	0	0	0	0.8	0	0.8	0.3	0	0	0	0	0
Dover Sole	0.4	0	2.9	0	0	0	1.1	0	0	0	0	0	0	0	0
Pacific Halibut	13.8	9.3	0	0	22	50.8	24.2	14	15.7	69	72.9	180.8	32.1	95	53.5
Starry Flndr	0	0	0	0	0	0	0	0	16.1	8.4	0	0	0	0	0
Yellowfin Sole	27.8	34.5	15	3.5	23.2	23.4	69.6	4.3	31.1	3.1	0	0	27.8	11	0
Other Flatfish	70.2	16.3	2.4	4.4	12	5.2	56.2	6.6	31.9	1.6	0	0	6.4	0	7.4
TOTAL FLATFISH	159.3	139.2	172.9	130	111.6	118.9	257	162.9	101.8	153	281.5	307.1	151.7	166.6	175.1
Skates	17.8	0	0	0	0	13.9	0	36.1	71.1	33.8	0	0	120.1	92	21.4
Spiny Dogfish	0	0	0	0	0	0	0	3	1.9	0	0	4	1.5	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.4	260.8	160.6	85.2	47.1	239.2	1.1	0.9	0.5	1.9	1.1	0.1	1.5	245.3	3.2
Red King Crab	0	4.3	53.3	0	26.7	118.2	0.2	0	0	0	0.6	0	0	0	0
Dungeness Crab	0.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0	0.9	0.5	0.7	0	0	0	0	0	1	0.4	0	0	0.6	1.3
Scallop	20.2	3	2.9	0	15.1	6.2	0.3	0	30.4	111.5	82.8	15.9	75.3	100.3	101.8
Other Inverts	13.5	8.6	467.7	33.2	15.3	5.1	45	128.4	44.9	46.9	42.1	23.8	45.1	55.9	64
TOTAL INVERTS	34.2	278.1	684.9	119.2	104.3	368.7	46.6	129.3	75.8	161.4	127	39.8	121.9	402.1	170.3
Other	13.5	9.4	332.8	27.5	14.6	1.2	2.8	304.6	16.5	33.7	18.6	80.9	20.6	12.1	17
TOTAL CATCH (kg/km)	252.4	562.6	1370.3	368.9	475.3	580.2	353.1	701.9	299.7	422.3	578.9	478	452.2	922.7	415.9

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Haul	151	152	153	154	155	156	157	158	159	160	PALOFO/V	PALOFO/V	PALOFO/V	PALOFO/V	PALOFO/V
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	7/25/01	7/25/01	7/26/01	7/26/01	7/26/01
Month/Day/Year	7/14/01	7/14/01	7/14/01	7/14/01	7/14/01	7/15/01	7/15/01	7/15/01	7/15/01	7/15/01	7/25/01	7/25/01	7/26/01	7/26/01	7/26/01
Station	645B	646C	682B	683A	ALJ	ALR	ALQ	ALP	ALO	ALM	245	228	PARB	PAV	PAV
Longitude Start	154 29.7	154 28.0	154 29.5	154 28.1	154 1.3	153 48.3	153 54.1	153 57.5	153 58.8	153 59.5	153 55.9	161 8.2	161 18.5	161 35.5	161 34.5
Latitude Start	56 51.0	56 49.2	56 46.9	56 45.8	56 54.0	57 7.7	57 5.0	57 2.5	56 59.5	56 55.5	58 56.0	55 15.3	55 15.9	55 24.8	55 21.0
Heading, Degrees	180	90	172	90	37	216	226	211	214	40	247	312	63	160	180
Average Depth (m)	69	66	64	60	71	113	174	157	128	64	66	75	73	82	97
Distance Fished (km)	0.9	1.3	1.9	1.9	0.9	1.9	0.7	0.7	0.7	1.3	0.9	1.7	1.9	1.7	1.9
Bottom Temperature (°C)	8.9	8.6	8.8	8.9	6.1	4.2	4.3	4.3	4.6	6.2	6.4	6.2	6.5	6.3	6
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
kilograms/kilometers															
Pollock	9.8	63.5	53.5	90.3	46.7	85.1	23.4	22.3	56	63.1	141.7	2.2	108.8	26.8	379.6
Pacific Cod	0	29.4	2.2	2.8	10.7	2.2	0	1.4	5.7	2.2	9.1	0	0	9.6	20.2
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0.1	0	0.2	0	0	0	0	0	0.8	0.2	0	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	2.6	0.7	0.5	0	14.8	2.8	0.9	3.8	1.1	4.5	4.9	2.9	0	8.5	3.7
Other Roundfish	7.1	5.1	5.1	1.9	5.1	5.8	5.6	2.2	6.4	22.8	5.8	0.4	0.8	2.5	2.1
TOTAL ROUNDFISH	19.6	98.8	61.3	95.1	77.3	95.9	30	29.7	69.3	93.5	161.7	5.5	109.7	47.6	405.6
Arrowtooth Flndr	6.6	45.5	8.3	32.5	4.9	24.3	5.2	8.7	13.5	22.6	4	167.3	124.5	25.3	52.1
Flathead Sole	40.4	86.1	109	66.4	33.1	116.8	11.3	16.1	33.6	162.5	90.3	83	145.8	261.7	207.8
Rock Sole	0	0	0	0	0	0	0	0	0	0	0	0	8.2	4.4	4.1
Rex Sole	0	0.2	0	1.1	0	0	0	0	0	0	0	0	0	0	0
Dover Sole	0	0.8	1.1	0	0	0	0	0	2.3	0	0	0	0	0	0
Pacific Halibut	0	22.7	34.4	15.9	0	0	0	0	12.4	0	8.1	16.4	24.7	0	16.3
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	20.5	0	0	0	0	49.5	32.6	26.4	85.6	131.5	93.5
Other Flatfish	3.4	11.1	0.8	15.7	7.1	2.8	0	0	0	9.4	5.1	3.1	0	0	9.7
TOTAL FLATFISH	50.4	166.5	153.7	131.6	65.7	143.7	16.4	24.8	61.9	243.9	140.1	296.1	388.7	422.9	383.5
Skates	28.5	42.9	0	38.2	0	0	0	0.3	14.9	0	0	0	27.4	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	1	0	2.3	1.1	86.4	24.7	6.4	6.4	25.8	24.1	18.6	3.3	1.6	34.7	2.9
Red King Crab	0	0	0	0	15.4	0	0	0	0	3.3	0.4	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0	0.4	0	0	0	1.6	0.3	0.5	1.6	0.9	0	0	0	0	0
Scallop	40.4	32.5	94	29.5	6.6	0	0	0	0	39.1	4.2	0	0	0	0
Other Inverts	38.7	61	109.1	43.9	8.4	3.2	16.3	21.9	25.3	18.4	14.9	34.1	5	204.7	115.2
TOTAL INVERTS	80.1	93.9	205.4	74.6	116.7	29.5	23	28.9	52.7	85.8	38.1	37.4	6.6	239.3	118.1
Other	11	10.1	34.5	7.5	17	6.9	4.7	6.8	10	29.8	23.7	1.7	1.9	225.7	4.6
TOTAL CATCH (kg/km)	189.6	412.2	454.8	347	276.6	276	74.1	90.5	208.8	453.1	363.7	340.8	534.2	935.5	911.7

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Haul	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
Location	PAYLOF/V														
Month/Day/Year	7/26/01	7/26/01	7/26/01	7/26/01	7/26/01	7/26/01	7/26/01	7/26/01	7/26/01	7/27/01	7/27/01	7/27/01	7/27/01	7/27/01	7/27/01
Station	VOD	VOI	VOBX	VOH	VOG	VOA	PAU	PARA	PAH	PAIX	PAEX	PABX	PALX	PAP	PAOA
Longitude Start	161 32.7	161 35.7	161 36.8	161 39.4	161 46.5	161 43.2	161 40.4	161 40.3	161 36.2	161 34.7	161 33.6	161 29.0	161 32.5	161 34.3	161 39.0
Latitude Start	55 19.0	55 17.2	55 18.5	55 16.4	55 15.2	55 17.5	55 21.2	55 23.8	55 30.7	55 31.9	55 34.1	55 36.2	55 29.9	55 27.3	55 27.0
Heading, Degrees	64	245	254	235	93	11	351	10	180	140	137	125	180	242	187
Average Depth (m)	117	102	95	102	104	110	128	104	59	35	20	20	53	75	90
Distance Fished (km)	1.9	1.3	1.9	1.9	1.7	1.5	1.7	1.9	1.3	0.9	0.9	1.1	1.7	1.7	1.9
Bottom Temperature (°C)	5.9	5.5	5.7	5.5	5.5	5.5	5.6	5.6	6.5	6.8	7.3	7.9	6.6	6.3	6.1
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	291	906.1	111.2	265.6	681.7	372.7	69.7	77.5	21.1	0	6.6	0	8.9	107	119.4
Pacific Cod	9.7	23.1	18	23.6	14.4	26.5	68.4	46.9	14	28.1	61.4	3.4	32.4	27.5	31.9
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roughey e Rkfish	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0
Thomyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	13	20.9	3	11.1	3.7	7.3	1.8	7.9	12.6	7.9	4.9	14	8.2	25.1	53.2
Other Roundfish	1.5	0	0.5	2.4	0.7	1.7	0.3	3.6	0.2	0	1.6	0.2	1.2	0.8	27.3
TOTAL ROUNDFISH	315.2	950	132.8	303.5	700.5	408.3	140.2	136	47.9	36.1	74.4	17.7	50.7	161.1	231.7
Arrowtooth Flndr	39.7	103.8	74.3	111	56.4	103.6	70.5	55.9	10.9	4.3	0	3.7	5	42.2	133.7
Flathead Sole	116.7	130.3	186.1	123.2	172.3	208.6	315.3	223	211.7	15.4	15.7	26.5	101.8	341.9	1250
Rock Sole	0	0	1.3	0	0	0.9	0	37.9	170.9	29.2	38.5	7.5	29.8	48.3	60.8
Rex Sole	0	1	1.6	1.4	1.5	2.6	0	0	0	0	0	0	0	0	0
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Halibut	4.7	10.2	37.6	48.1	9.9	33.8	13.3	76	13.4	65.9	76.1	12.2	18.6	28.8	44.8
Starry Flndr	0	0	0	0	0	0	0	0	0	7.3	0	0	0	0	0
Yellowfin Sole	55.7	128.3	94.4	65.1	89.1	70.8	21.4	164	541.3	155.2	80.2	277.3	430.7	220.7	112.4
Other Flatfish	0	0	0	0	0	22	3.3	5.9	8.9	0	13.7	6	0	0	16.7
TOTAL FLATFISH	216.8	373.7	395.2	348.7	329.2	442.2	423.8	562.7	957.1	277.3	224.1	333.2	586	681.8	1618.2
Skates	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	19.9	12.4	9	8.7	3.2	7.4	8.6	4.7	10	1.1	0.2	0.1	12.1	8.9	15.1
Red King Crab	0	0	0	0	0	0	0	0	0	0.5	0.1	0.2	30.6	1.9	
Dungeness Crab	0	0	0	0	0	0	0	0	2.6	0	0	0	0.9	0	0
Shrimp	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
Scallop	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0
Other Inverts	58.1	37.7	60.5	97.1	242.5	153.6	211.5	120.3	116.8	182.2	74.3	188.3	167.1	94.3	598.4
TOTAL INVERTS	78	50.1	69.5	105.8	245.7	161	220.3	125	129.4	183.4	75.3	188.6	180.3	133.8	615.4
Other	31.4	64.1	2.9	4.3	2.6	3.2	6.8	14.4	42.1	167.2	329	542.2	111.2	41.5	3
TOTAL CATCH (kg/km)	641.4	1437.9	600.4	762.4	1278	1014.6	791	838.1	1176.5	663.9	702.9	1081.6	968.1	1018.2	2468.5

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Appendix B. (Page 13 of 24)

Haul	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
Location	PAVLOF/V	MORZHOM	SANAK												
Month/Day/Year	7/27/01	7/27/01	7/28/01	7/28/01	7/28/01	7/28/01	7/28/01	7/29/01	7/29/01	7/29/01	7/29/01	7/29/01	7/29/01	7/29/01	7/29/01
Station	VOFB	VON	VOLX	VOQ	VOR	VOMB	VOP	MOL	126	113	125	138B	138C	138A	137
Longitude Start	161 47.7	161 44.7	161 58.7	161 49.4	161 45.0	161 50.3	161 55.6	162 57.6	162 33.2	162 38.6	162 31.9	162 25.0	162 18.5	162 22.2	162 24.2
Latitude Start	55 16.4	55 14.2	55 12.9	55 11.9	55 11.8	55 13.9	55 11.4	54 54.7	54 28.9	54 30.7	54 30.9	54 26.9	54 26.3	54 28.5	54 30.2
Heading, Degrees	224	224	121	90	310	0	52	333	90	111	90	110	275	270	225
Average Depth (m)	97	121	68	93	121	90	90	119	139	137	146	141	150	141	146
Distance Fished (km)	1.5	1.7	1.3	1.9	1.5	1.9	1.3	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.5	5.5	5.7	5.5	5.5	5.5	5.6	5.8	5.6	5.6	5.6	5.6	5.7	5.7	5.6
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
—kilograms/kilometers—															
Pollock	1801.3	214.5	1211.8	707.4	302	525.3	1061.1	231.3	0.7	3.3	0.4	3.8	5.2	0.5	2.2
Pacific Cod	10.4	52	14.3	35	34.7	12.6	29.7	29.9	11.5	6.8	1.7	25.9	7.4	9.8	4.6
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	0	0.1	0.4	0	1	0	2.1	0
Thorny head Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0.8	0	0	0	0	0	13.1	0	1.4
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	14.9	2.7	41.7	16.9	7.9	1.5	10.3	9.2	10.5	2	1.1	1.1	0.1	1.3	0.1
Other Roundfish	0	6.7	0	4.8	3.4	0.4	0.5	6	1.3	1.3	8.9	3.3	10.4	1.8	2.7
TOTAL ROUNDFISH	1826.5	275.9	1267.8	754	348	539.9	1102.4	276.4	24	13.8	12.2	49.7	23.1	16.9	9.6
Arrowtooth Flndr	80.4	132.4	58.6	65.5	84	167.9	194.5	137.5	92.8	165.9	110.7	104.1	89.1	91	133.9
Flathead Sole	139.8	241.7	174.6	126.2	266.8	185.3	260.5	341.7	113.1	142.5	60.4	118.9	65	70.3	171.2
Rock Sole	0	2.2	7	0	1.2	1.5	2.9	21.2	1	0	0	0	0	0	0
Rex Sole	0	0.3	0	2.6	0	1.5	0	0	11.7	13	6.3	13.9	6.3	14.3	11.7
Dover Sole	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0
Pacific Halibut	23.2	26.3	4.8	22	16.1	8.9	17	112.7	10	20.1	12.1	89.7	34.1	12.8	7
Starry Flndr	0	0	0	0	0	0	0	45.1	0	0	0	0	0	0	0
Yellowfin Sole	0	16.6	267.6	37.1	19.1	52.3	178.4	80.5	0	0	0	0	0	0	0
Other Flatfish	0	3.3	0	41.9	24.8	0	16.6	51.5	3	0	0	3.7	0	0	6
TOTAL FLATFISH	243.5	422.6	512.6	295.2	412	417.4	670	790.1	231.6	341.6	189.5	330.7	194.7	188.5	329.7
Skates	0	0	0	0	0	0	0	3.7	0	3.1	7.4	0	1	0	6.3
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	11.2	19.2	2.2	1.8	3.5	3	12.8	50.6	1.6	1.7	2.6	2.5	22.2	1.9	2.2
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0	0.3	0	0	1	0	0	0.1	0.4	0.7	0.6	0.7	0	0.4	0.1
Scallop	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0
Other Inverts	6.8	84	8.3	8.9	24.2	48.5	39.1	65.3	21	3	4.4	13.5	13.3	36.3	29.7
TOTAL INVERTS	18	103.5	10.5	10.7	28.7	51.5	51.9	116	23	5.5	7.6	16.8	35.5	38.6	32
Other	0	6.5	5.7	6.7	3.9	3.8	11.7	8.7	1.1	4	3.1	1.3	2.3	2	5.7
TOTAL CATCH (kg/km)	2088	808.5	1796.6	1076.8	792.6	1012.6	1836	1194.8	279.7	368	219.8	398.5	256.6	246.1	383.3

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Appendix B. (Page 14 of 24)

Haul	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
Location	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	MORZH0\	COLD BA\	COLD BA\	COLD BA\	
Month/Day/Year	7/30/01	7/30/01	7/30/01	7/30/01	7/30/01	7/30/01	7/30/01	7/30/01	7/30/01	7/31/01	7/31/01	7/31/01	7/31/01	7/31/01	7/31/01
Station	MORX	MOSX	87AX	87D	MOOX	MOK	MOH	MOI	MOG	MOB	MOD	MOF	COM	COO	COGA
Longitude Start	163 9.7	163 5.3	162 59.9	162 56.7	163 1.4	163 1.4	163 0.0	162 57.9	162 59.5	163 3.9	163 3.7	163 2.0	162 27.6	162 22.8	162 28.4
Latitude Start	54 49.4	54 49.9	54 49.5	54 46.6	54 51.6	54 53.0	54 57.4	54 56.8	54 58.5	55 3.6	55 2.3	54 59.3	55 0.9	55 0.0	55 8.4
Heading, Degrees	67	69	186	134	60	69	167	340	337	180	139	140	90	90	321
Average Depth (m)	90	86	86	91	88	93	99	101	88	75	88	79	79	102	90
Distance Fished (km)	1.9	1.9	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.7	1.9	1.7
Bottom Temperature (°C)	5.8	5.8	6	5.7	5.9	5.8	5.7	5.7	5.7	5.8	5.7	5.7	7.6	7.3	9.4
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	137	6.5	3.1	0.3	594.6	183.4	173.8	2282.8	517.3	36.1	153.7	17.1	27.7	35.7	5.4
Pacific Cod	85.6	5.4	0	7.4	20.9	8.3	16.5	3.4	2.5	18	36.3	4.3	1	18.9	13.9
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thornyhead Rkfsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.2	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	35	3	0.5	12.5	1.8	9.7	26.9	91	7.4	6.4	0.6	2.1	8.8	0.6	0.5
Other Roundfish	1.9	0.3	0.4	1.3	0.7	0	0.4	1.7	0	0	0.5	0.2	1.9	4.6	0.6
TOTAL ROUNDFISH	261	15.2	4	21.6	618.1	201.4	217.6	2379.2	527.1	60.5	191.1	23.7	39.3	59.9	20.4
Artooth Flndr	98.1	54.3	122.3	164.8	228.1	80.9	96.5	2193.6	207.3	86.7	74.6	112.5	36.1	4.3	0
Flathead Sole	217.5	292.6	125.8	152.7	131.1	116	185	3347	227.9	130	298.2	84.6	181.1	742.3	163.8
Rock Sole	18.2	1.4	0.5	2.3	0	0.4	3.1	0	1.7	17.3	4.9	0	0	4.9	188.7
Rex Sole	0.9	1.5	0	0	0	0	0	3.4	0.6	0	0	1.1	0	0	0
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Halibut	129.6	23.3	0	38.7	43.1	115.9	75.7	115.2	23	31.7	22.5	110.7	11.4	8.3	9.4
Starry Flndr	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	169.3
Yellowfin Sole	29.2	23.2	11.7	0	60.9	26.5	133.8	813.6	107	313.1	151.7	172.2	153.3	109.9	498.2
Other Flattfish	43.9	5	3.6	2.3	0	4.1	13.5	65.2	12.3	34.1	23	13.3	21.8	60.1	4.2
TOTAL FLATFISH	539.7	401.3	263.8	360.7	463.2	343.9	507.5	6538	579.8	612.8	574.8	494.4	403.7	929.7	1033.7
Skates	0	0	10.6	2.4	0	0	0	0	3.2	0	0	0	20.7	0	0
Spiny Dogfish	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0.8	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	6.8	32.3	36.2	5.3	76.7	51.5	11.7	8.4	5.6	0.7	5.2	3.6	15.4	74	40.2
Red King Crab	0	0	0	0	0	0	0	0	0	0	6.5	0	3.8	0	0
Dungeness Crab	0	0	0	0	0	0	0	0.3	0	0.3	0	0	0	0	0
Shrimp	1	0.2	0.1	0	0	0.2	0.4	6.9	0.9	0	0	0	0	0	0
Scallop	0	0.6	2.9	2.9	0.2	0	0	0.1	0	0	0	0	0.3	0	0.3
Other Inverts	44.5	4.9	19.9	7.2	10.4	23.4	103.3	206	19.3	41	78.9	89.3	72	119.6	73.5
TOTAL INVERTS	52.4	37.9	59.1	15.4	87.3	75	115.4	221.7	25.8	42	90.5	92.9	91.6	193.6	114
Other	1.8	2	8.6	2	2.8	2.2	3.8	51.5	1.8	1.2	.10	1	0.5	57.8	23.7
TOTAL CATCH (kg/km)	854.9	456.4	346	404.2	1171.4	622.5	844.4	9190.3	1137.8	716.5	866.5	612	555.7	1241.9	1191.8

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Appendix B. (Page 15 of 24)

Haul	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	BEAVER	BEAVER
Location	COLD BA	COLD BA	COLD BA	COLD BA	COLD BA	COLD BA	COLD BA	COLD BA	COLD BA	BA	BA						
Month/Day/Year	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/1/01	8/2/01	8/2/01	8/2/01	8/2/01	8/2/01	8/2/01	8/3/01	8/3/01		
Station	COB	COC	COE	COF	COGB	COH	BEG	BEBX	BECX	BEE	BEF	156A	157A	BAA	BAC		
Longitude Start	162 35.7	162 33.2	162 32.6	162 31.4	162 27.0	162 23.8	162 10.1	162 8.9	162 9.6	162 9.0	162 6.8	162 7.1	162 7.3	160 42.0	160 36.9		
Latitude Start	55 13.6	55 13.5	55 11.7	55 9.7	55 7.8	55 6.5	54 58.4	55 8.3	55 6.7	55 4.0	55 1.0	54 59.0	54 54.9	55 32.3	55 31.1		
Heading, Degrees	154	169	153	111	141	285	0	190	180	180	206	180	141	117	177		
Average Depth (m)	53	46	68	82	59	46	84	64	79	79	95	88	79	31	97		
Distance Fished (km)	0.9	1.5	1.5	1.3	1.5	1.5	1.9	0.9	1.3	1.5	1.9	1.9	1.9	1.9	1.9		
Bottom Temperature (°C)	9.3	9.4	9.1	9.1	9.2	9.3	6.8	7.3	6.6	6.9	6.8	6.8	6.9	6.9	5.2		
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
—kilograms/kilometers—																	
Pollock	3.9	40.6	10.1	10	6.7	10.3	175.3	491	168.8	464.6	70	241.4	352.8	0	101.3		
Pacific Cod	3.3	16.1	2	13.2	2.5	4.4	2.8	4.4	15.7	13.8	5.8	35.8	12.1	0.1	21.9		
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	34	3.9	13.5	17.4	7.8	20.9	0.7	0	10.8	16.9	14.4	13.3	1.7	0	15.7		
Other Roundfish	0.6	0.2	0.8	0.7	0	1.4	1.8	0.5	9.9	2.6	7.7	5.3	1.7	0.3	1.4		
TOTAL ROUNDFISH	41.8	60.8	26.3	41.2	17.1	37	180.7	495.9	205.2	497.9	97.9	295.8	368.4	0.3	140.3		
Arrowtooth Flndr	0	0.1	0	0	0	0	12.3	18.5	22	34.7	29.7	44	31.8	10.6	154.1		
Flathead Sole	54.7	72.2	139.9	209.4	187.5	148.9	184.3	334.2	399.9	312.7	234.5	306.8	148.7	20.6	256.4		
Rock Sole	0	3.2	6.3	141.6	4.9	0	1.1	0	0	9.8	3.3	0	0	9.8	1.4		
Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3		
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pacific Halibut	0	14.4	0	0	5.4	7.6	12.4	14.9	18.5	26.5	52.9	33.1	22.4	24	11.9		
Starry Flndr	43.7	57.5	133.2	250.7	199.9	364.4	14.5	46.6	12.8	0	5.5	0	4.5	0	0		
Yellowfin Sole	602.7	355.2	527.6	378.2	466.7	366	82.2	236.8	136.7	151.9	91	18.7	64.2	19.8	89.3		
Other Flatfish	0	0	0	0	0	4.7	15.9	17.4	31.3	30.9	7.4	12.5	14	3.6	5.2		
TOTAL FLATFISH	701.1	502.5	807	980	864.3	891.7	322.6	668.4	621.1	566.6	424.3	415.1	285.5	88.5	518.6		
Skates	0	0	0	0	0	0	0	15.6	0	0	0	24.9	23.4	2.3	0		
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Elasmobrth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tanner Crab	6.7	1.8	14.2	18.9	21.1	3.5	0.2	0.3	5.3	6	1.9	12	0.6	10.1	0.8		
Red King Crab	0	0	8.7	11.3	0	0	0	0.1	0	0	0	0	0	0	0		
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Shrimp	0	0.2	0	0	0	0	0	0	0.2	0	0.4	0.2	0	0	0		
Scallop	0	0	0	0	0	0	9.8	0	0	0.5	0	0.3	1.8	0.7	0.1		
Other Inverts	155.7	146.7	39.4	32.4	0.5	6.2	364.5	11.3	89.9	5.6	28.9	4.9	38.9	140.2	89.9		
TOTAL INVERTS	162.4	148.7	62.3	62.5	21.6	9.7	374.5	11.6	95.5	12.1	31.3	17.4	41.3	151	90.8		
Other	584.5	7.5	75.9	3.6	3.2	3.2	38	3.1	6.6	4.7	3.8	4.9	12.2	482.4	8.5		
TOTAL CATCH (kg/km)	1489.8	719.5	971.5	1087.3	906.2	941.5	915.9	1194.7	928.4	1081.2	557.3	758.1	730.8	724.5	758.1		

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Appendix B. (Page 16 of 24)

Haul Location	226 BEAVER	227 BEAVER	228 BEAVER	229 BEAVER	230 BEAVER	231 BEAVER	232 BEAVER	233 STEPOVAK	234 BEAVER	235 BEAVER	236 BEAVER	237 BEAVER	238 BEAVER	239 BEAVER	240 W.NAGAI
Month/Day/Year	8/3/01	8/3/01	8/3/01	8/3/01	8/3/01	8/4/01	8/4/01	8/4/01	8/4/01	8/4/01	8/4/01	8/4/01	8/4/01	8/4/01	8/5/01
Station	BAF	BVB	BVA	BVC	278	312A	348	368A	329B	BAD	BAE	311A	311B	329C	353
Longitude Start	160 33.1	160 52.3	160 54.4	160 53.9	160 56.4	160 37.1	160 18.6	160 10.6	160 25.7	160 35.5	160 36.7	160 34.8	160 33.1	160 28.9	160 17.5
Latitude Start	55 28.6	55 30.1	55 29.4	55 27.7	55 22.9	55 24.4	55 34.2	55 33.9	55 27.8	55 31.3	55 28.6	55 27.4	55 26.0	55 25.9	55 6.1
Heading, Degrees	333	190	182	223	2	120	121	90	30	144	180	90	90	55	207
Average Depth (m)	73	35	46	88	104	49	185	179	166	95	110	137	133	133	104
Distance Fished (km)	1.9	1.9	1.9	1.9	1.5	0.9	1.1	1.3	0.7	1.9	1.3	1.9	1.7	1.1	1.5
Bottom Temperature (°C)	6.6	8.1	7.2	7	5.9	6	5.7	5.4	5.4	5.4	5.2	5.2	5.2	5.8	5.8
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
kilograms/kilometers															
Pollock	0	0	0	176.6	896	0	32.1	66.7	32	60	5.6	898.4	371.7	386.7	0
Pacific Cod	3.6	0.2	35.6	13.3	37	0	14.6	6.2	2.4	23.3	10.1	12.1	5.8	3.2	0.7
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	0	0	0	1.1	0	0.1	1.5	1.8
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	19.7	6.7	0.4	25.2	202	4.5	0	0.6	0.8	6.2	15.7	1.4	1	0	0
Other Roundfish	0.6	0	0.8	0.7	6.9	0.1	12.5	0.5	0.3	0.2	0.4	0	0	0	0.3
TOTAL ROUNDFISH	25.2	6.9	36.8	215.8	1141.9	4.5	59.2	74	35.4	90.8	31.8	911.9	380.1	391.7	0.9
Arrowtooth Flndr	84.6	25.4	12.7	164.2	83.7	9.4	447.4	261.4	105.6	141.6	96.6	597.1	188.6	108.2	1474.5
Flathead Sole	55.2	22	22.3	18.8	105.2	3.8	203	200.2	77.5	142.2	204.1	332.4	159	117.9	29.9
Rock Sole	26.7	126.9	18.9	192.1	49.4	32.3	0.4	0	0	3.4	11.6	0	0	0	0.1
Rex Sole	19.7	0	0.3	0	0	0.1	2.1	11.1	0.9	0.4	10.1	11.7	2.6	5.9	0.6
Dover Sole	0	0	0	0	1.9	0.1	0	0	0	0	0	0	0	0	0
Pacific Halibut	29.7	9.7	8	76.5	63.8	0	0	20.5	0	31.9	34.2	51.3	21	37.4	30.3
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	104.7	55.1	360.9	92.4	50.5	0	0	0	0	64.7	48.9	15.2	0	7.2	0
Other Flatfish	28.2	37.4	18.1	0	8.5	0	0	0	0	0	12.7	0	0	0	0
TOTAL FLATFISH	348.8	276.4	441.2	544	363	45.7	653	493.3	184	384.2	418.1	1007.7	371.2	276.6	1535.3
Skates	2.2	0	52.4	0	0	0	0	4.5	0	0	0	0	0	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0	0	0	0.1	1.7	0.1	2.8	3.2	11.5	1.9	2.7	6.1	1	6.1	0.8
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0.5	14.2	26.3	4.7	0.3	0	0	0	0	5.8	0	0	0	0	0
Shrimp	0	0	0	0	0	0	2.1	0.3	0.2	0	0	0	0	0	0
Scallop	2.7	3.9	6.7	5.9	8.4	0	0	0	0	0.5	0.6	0	0	0	4.6
Other Inverts	121.3	49.1	33.8	27.8	88.2	28.8	21.4	67.7	19.5	8.4	27.1	45	8.6	27	10.6
TOTAL INVERTS	124.5	67.3	66.8	38.5	98.6	28.9	26.4	71.3	31.2	16.6	30.4	51.1	9.6	33.2	16.1
Other	6.2	155.1	18.1	11.4	17	5.8	15	10.5	5.9	5.8	6.9	6.2	8	3	0.3
TOTAL CATCH (kg/km)	506.8	505.8	615.1	809.7	1620.5	84.9	753.5	663.6	256.5	497.4	487.2	1976.9	768.9	704.4	1552.6

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Appendix B. (Page 17 of 24)

Haul	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
Location	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	STEPOVAK	STEPOVAK	STEPOVAK	STEPOVAK						
Month/Day/Year	8/5/01	8/5/01	8/5/01	8/5/01	8/5/01	8/5/01	8/7/01	8/7/01	8/7/01	8/7/01	8/7/01	8/8/01	8/8/01	8/8/01	8/8/01
Station	354	334	335	337	318	301	332B	373A	373B	393	371	STA	STB	STE	STD
Longitude Start	160 19.0	160 21.8	180 28.8	160 28.8	160 33.5	160 42.9	160 22.4	160 6.8	160 3.5	159 58.7	160 9.3	159 48.9	159 45.6	159 45.8	159 48.9
Latitude Start	55 4.4	55 3.0	54 59.5	54 46.5	54 47.3	54 47.8	55 12.2	55 6.7	55 9.0	55 11.8	55 16.8	55 49.7	55 49.7	55 47.3	55 46.2
Heading, Degrees	211	219	240	211	301	292	0	317	317	334	327	180	180	180	190
Average Depth (m)	99	121	115	108	108	110	187	27	73	73	137	91	110	121	119
Distance Fished (km)	1.3	1.3	0.9	1.3	1.5	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.9	1.5	1.9
Bottom Temperature (°C)	5.8	5.8	5.8	5.8	5.8	6.1	5.9	7.7	6.3	6	5.9	6.4	5.1	5.2	5.1
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	0.1	33	485.7	0	0	0	481.1	0	184.4	0	0.3	9	43.6	1469.2	563.3
Pacific Cod	2	9.2	6.7	13.6	5.8	14	39	0.2	8	0	2	1	9.8	5.9	2.3
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	0	0
Thomy head Rkfsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	1.7	3.3	0	0	0	0.3	0	0.2	0.5	0	0.3	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0	0	0	0.3	9.4	0.2	33.8	3.5	0	3.9	6.5	0	0
Other Roundfish	0	0.9	0.6	0	0	0	0	0.5	0.4	0.7	0.1	0.4	0.3	0.1	0
TOTAL ROUNDFISH	3.8	46.4	493	13.6	5.6	14.6	530.1	1	227.4	3.6	3	14.7	60.5	1475.1	565.6
Arrowtooth Flndr	1255	649.6	190.5	491.2	246.4	231.5	92.3	0.2	47.6	129.8	806.8	76.5	128.7	159.3	90.9
Flathead Sole	236.8	207.8	73.1	21.1	21.3	26.2	146	29.4	40.1	60	50.8	43.8	90.2	117.1	87.1
Rock Sole	4	0	0	0	0	0	0	63.9	0	0	28.9	0	0	0	0
Rex Sole	4	28.2	42.6	15.4	23.9	12.5	0	0	0	0.2	0.4	1.9	3.7	1.5	3
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Halibut	14.4	5.9	93.5	24.4	22.6	0.8	63	24.1	23.2	10.7	14.1	76.9	54.4	46.8	13.6
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	50.7	69.1	22	0	28.8	12	0	0
Other Flatfish	1.5	0.9	1.1	0	0	0	0	0	34.5	11.4	1.4	0	3.5	3.5	0
TOTAL FLATFISH	1515.8	892.3	400.9	552	314.3	271	301.3	273.1	191.4	224	901	231.4	292.5	324.7	194.5
Skates	0	18.5	37.6	0	0	0	4	284.6	25.9	0	1.1	0	0	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	2.5	0.6	0	0.3	0.3	1.3	3.6	0.1	20	3.7	1.6	2.2	1.1	0.7	1.3
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	0	0	0	0	0	0.6	6.6	0	0	0	0	0	0	0	0
Scallop	3.4	3.2	1.2	3.3	4.6	3.2	0.2	1.7	3.7	0.5	0.5	4.8	1.6	0.2	2
Other Inverts	6.3	51.7	54.5	33.6	55.7	56.4	30.8	104.3	34.2	8.6	61.9	14.7	5.3	9.4	1.6
TOTAL INVERTS	12.2	55.5	55.8	37.1	60.6	61.5	41.2	106.1	58	12.8	64	21.7	8	10.3	4.9
Other	1.2	1.8	0.6	4.8	4.8	24.1	4.5	4	10.5	7.9	2.5	1.4	1.8	5	2.6
TOTAL CATCH (kg/km)	1533	1014.6	987.7	607.5	385.2	371.2	881.2	668.8	513.1	248.4	971.6	269.2	362.8	1815.1	767.6

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Haul	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
Location	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	MITROFAN	MITROFAN	MITROFAN	MITROFAN	MITROFAN	MITROFAN	CHIGNIK	CHIGNIK
Month/Day/Year	8/8/01	8/8/01	8/8/01	8/9/01	8/9/01	8/9/01	8/9/01	MITROFAN	MITROFAN	MITROFAN	MITROFAN	MITROFAN	MITROFAN	8/10/01	8/11/01
Station	4008	4007	4000	400X	4900	4915	4024	4035	4094	4065	4064	4063	4048	4312	4265
Longitude Start	159 25.5	159 23.6	159 28.7	159 28.9	159 29.3	159 10.8	159 3.9	158 50.5	158 45.1	158 34.0	158 35.6	158 35.0	158 38.0	158 9.0	158 18.2
Latitude Start	55 44.6	55 46.5	55 47.2	55 48.6	55 53.2	55 51.7	55 53.4	55 57.0	55 55.3	55 56.0	56 0.0	56 7.8	56 3.6	56 15.1	56 11.4
Heading, Degrees	180	249	180	337	245	217	128	111	295	0	338	222	180	73	29
Average Depth (m)	101	84	77	66	31	64	101	139	144	102	146	146	168	126	57
Distance Fished (km)	1.9	1.9	1.9	1.9	0.6	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.3	1.7	1.9
Bottom Temperature (°C)	6.4	6.2	6.8	7.1	7.8	7.7	7	6.4	6.3	6.6	5.7	5.5	5.6	7.3	8.2
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	206.5	194.8	107.5	19.5	10.7	918	352.7	27.4	35.3	0	10	4.8	11.4	11.9	176.8
Pacific Cod	0.8	10.6	3.1	3.1	11.6	8.4	11.1	227.9	8	17.7	0	16.3	35.3	3.7	14.6
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	1.3	0	0	0	0	0	0	0.3	0	1	0	2.4	4	0.1	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0
Sablefish	0	0	1.9	0.2	0	0	0	0	0	0	0	0	0	0	0.6
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	1.6	1.8	3.8	4.4	0.5	0	0.7	8.8	5.7	2.4	0.2	20.2	0.3	2.5	13.8
Other Roundfish	0.8	0.1	0.6	1.8	0.6	0.7	0.2	0	0.2	0	4	0.1	0.2	0.1	0
TOTAL ROUNDFISH	211	207.4	116.9	28.9	23.3	927.1	365	264.2	50.2	20.6	15.6	45.5	47.4	18.2	205.9
Arrowtooth Flndr	77.4	91.7	63.7	85.7	6.3	75.9	62.9	101.3	144.2	335.8	107.3	152.3	68.4	336.3	85.2
Flathead Sole	140.2	57.1	38.8	50.5	332.4	94.4	60.3	125.7	163.6	33.5	150.1	262.8	251.7	183.9	109.4
Rock Sole	0	12.2	1.6	0	0	0	0	0	0	13.1	0	0	0	3	0
Rex Sole	6.9	0	5.5	0	0	0	2.9	5.9	5.7	46.6	11.6	1.3	1.8	0	0
Dover Sole	0	0	0	0	0	0	0	0	0	14.2	0	0	0	0	0
Pacific Halibut	7.9	10.4	45.6	0	34.3	69.3	46.4	21.4	20.8	10.8	18.8	0	24.8	23.7	22.8
Starry Flndr	0	0	0	5.8	91.8	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	9.8	11.2	34.1	32.4	263.7	6.4	0	0	0	0	0	0	0	0	81.4
Other Flatfish	0	0	13	6.7	49.3	0	0	6.3	0	16.6	0	0	0	0	0
TOTAL FLATFISH	242.2	182.6	202.3	181.1	777.9	245.9	172.5	260.6	334.4	470.5	287.8	416.4	346.7	546.9	298.9
Skates	0	0	0	3	0	131	9.3	0	42.9	4.1	1.6	0	0	35.7	76.1
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	18.1	5.7	27	106.4	5.1	0.7	1.8	5.4	0.9	0.2	50	26.8	24.1	126.9	2.8
Red King Crab	0	0	0	1.3	0	0	1.5	0	0	0	0	0	0	0	22.7
Dungeness Crab	0	0	0.3	0.2	14.4	0.3	0	0	0	0	0	0	0	0	0
Shrimp	0.2	0	0	0	0	0	0.3	2.4	2.3	0.4	1.6	2.8	0.9	5.6	0
Scallop	1.8	5	7.6	0	0	15.6	2.6	0.1	0.1	0.3	0	0	0	0.7	0.5
Other Inverts	37.5	163.8	137	29	6.5	66	9.5	3.1	47.6	13.1	10.9	9	19.1	33.3	3
TOTAL INVERTS	57.5	164.4	171.9	136.8	26	82.6	15.7	10.9	50.8	13.9	62.5	38.5	44.1	166.5	28.9
Other	0.3	16.6	16.7	19.3	5.2	1.4	2.2	6.8	2.3	3	0	3.2	3	2.7	0
TOTAL CATCH (kg/km)	511	571	507.9	369.1	832.2	1388	564.7	542.6	480.5	512.1	388.6	503.7	441.2	770	609.9

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Haul	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285
Location	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK
Month/Day/Year	8/11/01	8/11/01	8/11/01	8/11/01	8/11/01	8/11/01	8/11/01	8/12/01	8/12/01	8/12/01	8/12/01	8/12/01	8/12/01	8/12/01	8/12/01
Station	4964	4264	4271	4270	4278	4274	4267	4262	4256	4266	4272	4277	4282	4287	4286
Longitude Start	158 20.8	158 15.7	158 12.5	158 10.9	158 2.1	158 8.3	158 10.1	158 16.1	158 19.7	158 12.6	158 5.7	158 3.3	157 59.5	157 55.8	157 54.7
Latitude Start	56 13.5	56 14.1	56 14.0	56 15.0	56 23.7	56 24.3	56 24.0	56 20.8	56 25.2	56 25.1	56 29.1	56 25.7	56 25.3	56 24.1	56 25.6
Heading, Degrees	95	211	58	57	315	90	303	124	90	90	159	158	90	70	90
Average Depth (m)	71	75	95	101	194	170	121	75	97	154	101	174	194	201	168
Distance Fished (km)	1.9	1.9	1.9	1.9	1.3	1.7	1.9	1.5	1.7	1.9	1.7	1.5	1.9	1.1	1.7
Bottom Temperature (°C)	7.8	7.6	7.5	7.3	5.9	5.8	5.8	8.3	6.1	5.8	6.5	5.9	6	6	6
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	288.3	231.4	70.3	29.8	20.9	20.6	0	59.4	22.2	14.1	6.8	14.6	12.4	20	27.9
Pacific Cod	11.6	5.7	4.3	1.7	2	15.5	0	7.7	8.8	37.7	2	2.4	5	3.8	0
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0.4	0.9	1.6	0.1	0.1	0	0	0	0	0.1	0.4	5.7	0.8
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	3.7	3.8	7	8.9	3.4	1.2	9.1	2.9	12.5	7.7	8.3	1.4	3.9	5.3	6.5
Other Roundfish	0.6	1.7	2.4	1.7	5	0.7	16.4	1.7	13	12	14.7	1.9	0.6	17.3	6.7
TOTAL ROUNDFISH	304.4	242.6	84.5	43.5	33	38.1	25.5	71.8	56.5	71.6	31.7	20.4	22.3	52	41.9
Arctoooth Flndr	52.7	58.5	172.8	172.9	89.3	156.8	137.4	30.4	135	117.6	142	412	120.2	125.8	126.1
Flathead Sole	107.1	108.9	156.1	122.1	113.8	157	92.3	23.5	193	169.9	116.4	165.6	134	127.3	153.1
Rock Sole	0	0	0	0	0	0	1.2	1.4	1	0	0	0	0	0	0
Rex Sole	0	1.1	1.9	3.8	2.7	8.5	5	0	5.2	14.2	1.2	8.4	7.3	0.3	6.2
Dover Sole	0	0	0.8	1.4	4.2	0.5	0.8	0	0	1.3	0	0	0	5.5	0
Pacific Halibut	13.3	22.9	9.2	14.8	4	17.9	29.6	8.7	7.9	0	29.9	16.5	7	0	43.6
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	54.1	33	2.3	3.1	0	0	0	1	3.5	0	0	0	0	0	0
Other Flatfish	0.7	0	1	0	0	0	0	0	9.6	4.6	9.4	0	0	0	0
TOTAL FLATFISH	228	224.4	344.2	318	214	340.6	266.2	65.1	355.3	307.6	298.9	602.5	268.5	258.9	329
Skates	7.3	16.8	15.2	14.1	0	0.1	0.1	127	0	16.3	41	17.5	0	42.1	8.8
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	21.5	11.1	118.6	56.2	7.7	3.8	28.9	453.6	6	25.9	2.2	9.7	15.9	23.3	13.6
Red King Crab	1.1	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0
Dungeness Crab	0.4	0	0	0	0	2.2	0.5	18	10.5	0.5	0.4	0	0	0	0
Shrimp	0.5	0.6	1	1.2	3.4	10.4	3.9	0	4	3.5	1	5.6	9.9	2.8	4.9
Scallop	0.6	0.6	0	0.3	0	0	0.3	0	0.4	0	0	0	0	0	0
Other Inverts	7	26.6	9.7	0.7	29	43.3	5.7	1.4	7.5	20.9	28.7	25	5.2	14	11
TOTAL INVERTS	31.1	38.9	129.3	58.4	40.2	59.7	39.3	475.4	28.4	50.8	32.2	40.3	31.1	40.1	29.5
Other	1.2	0.9	2.1	1.4	1	1.9	8.4	0.3	1.4	3.8	1.7	14	38.8	3	3.3
TOTAL CATCH (kg/km)	572	523.7	575.2	435.3	288.2	440.4	339.6	739.5	441.5	450.1	405.4	694.7	360.7	396.1	412.4

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Appendix B. (Page 20 of 24)

Haul	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
Location	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	W.KOD								
Month/Day/Year	8/13/01	8/13/01	8/13/01	8/13/01	8/13/01	8/13/01	8/14/01	8/15/01	8/15/01	8/15/01	8/15/01	8/15/01	8/15/01	8/15/01	8/15/01
Station	4296	4290	4298	4301	4302	4308	UYBX	UYT	UYSS	UYQX	UYMX	UYO	UYKX	UYEX	UYHX
Longitude Start	157 46.5	157 51.1	157 45.1	157 41.3	157 40.4	157 36.9	153 59.9	153 47.6	153 49.1	153 54.0	153 53.8	153 47.6	153 52.8	153 55.4	153 43.0
Latitude Start	56 37.3	56 36.4	56 32.0	56 33.9	56 32.3	56 32.5	57 44.4	57 22.1	57 25.8	57 28.9	57 34.0	57 33.9	57 35.6	57 38.6	57 39.7
Heading, Degrees	156	137	63	150	122	148	155	341	180	340	0	325	324	0	270
Average Depth (m)	64	27	91	91	101	126	137	40	68	135	110	82	128	177	95
Distance Fished (km)	1.3	1.9	1.9	1.9	1.9	1.9	0.7	1.3	1.5	1.9	1.9	1.3	1.9	1.9	1.9
Bottom Temperature (°C)	9.6	10.4	7.2	7.3	6.8	6.2	6.3	7.6	7.4	6.9	6.8	7.4	6.7	6.2	7
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	3.8	0.2	3.2	77.7	4.3	11	1.8	2.3	11.7	13.4	2.6	37.9	2.5	17.4	50.4
Pacific Cod	12.6	7.3	0.1	0.8	3.7	5.3	0.1	0.1	5.9	15.9	0	0	0	42.3	9.1
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
Thornyhead Rkfth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	2.2	0.5	0	1.6	1.1	1.2	1.1	0
Herring	0	0	0	0	0	0	0.1	1.1	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0.4	4.7	4	0.5	0.4	26.6	8.8	21.3	28.8	2.6	14.1	2.4	3.4	4.9	26.7
Other Roundfish	2.6	1.6	0.6	0.2	0.1	0.4	8.6	3.7	22.9	4.6	1.1	0.5	6.9	3	8.1
TOTAL ROUNDFISH	19.4	13.8	7.9	79.3	8.5	43.3	19.7	30.7	69.9	36.5	19.4	41.9	14.1	68.6	94.4
Arrowtooth Flndr	74.4	4.3	52.2	117.3	71.9	158.8	591.1	37.7	160.8	165.3	49.5	46.6	130.7	231.8	215.8
Flathead Sole	546.7	0.8	95.8	100.6	120.8	122.6	68.1	671.6	282.7	253.2	259.9	143.7	180	142.7	397.7
Rock Sole	0	16.4	3.2	0	0	0	0	0	0	0	0	0	0	0	0
Rex Sole	0	0	0.2	0.6	0.8	2.8	0	1.2	15.3	9.5	5.3	0.4	11.6	3	0
Dover Sole	0	0.2	0	0	0	0	74.9	0	0	0	0	2.9	0	0	0.3
Pacific Halibut	47.2	19.2	33.3	49.1	1.1	18.6	30.7	126.9	0	5.8	5.5	6.4	18.3	1.5	83.7
Starry Flndr	0	0.6	0	0	0	0	0	18.5	45.9	0	0	316.1	0	0	0
Yellowfin Sole	8.4	15.1	0	2	0	0	0	194	6.7	0	0	14.8	0	0	0
Other Flatfish	0	7.5	0	0	0	0	0	1.9	147.9	0	7.8	116.9	4.4	1.2	3.6
TOTAL FLATFISH	676.8	64	184.8	269.5	194.6	302.8	764.9	1051.8	659.3	433.8	328	647.8	345.1	380.1	701.2
Skates	0	30.1	31.5	50.7	12.1	12.1	50.1	32.4	23.2	32.9	14.9	41.1	65.8	64.1	11.6
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.3
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.7	0	0.6	0.2	1.5	1.5	1.3	0	116.2	6.2	16	10.9	6.1	4.7	15.6
Red King Crab	0	0	0	0	0	0	0	2.1	433	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	1.1	0	0	0	8.9	0	0	0
Shrimp	3.7	0	1	0.3	1.7	2.4	2.8	0	0.9	8.3	1.4	0.1	5.1	11.1	0.1
Scallop	4.6	0	0.2	3.3	4.6	3.8	0	0.5	0.3	0	0	0	0	0	2.5
Other Inverts	182.6	140.7	21.3	44.3	27.6	8.6	17.9	38	9.5	16	7.7	100.6	24.6	4.9	29.5
TOTAL INVERTS	191.5	140.7	23.1	48	35.4	16.4	22	41.8	559.9	30.5	25.1	120.5	35.8	20.6	47.7
Other	39.2	64.8	1.9	6.7	4.9	0.8	13.9	11.7	6.7	33	6.9	36.2	7.2	23.8	6.1
TOTAL CATCH (kg/km)	926.9	313.4	249.2	454.3	255.5	375.4	870.7	1168.4	1319.1	566.7	394.3	887.5	467.9	557.3	863.3

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Appendix B. (Page 21 of 24)

Haul	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315
Location	W.KOD	W.KOD	W.KOD	W.KOD	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.
Month/Day/Year	8/15/01	8/28/01	8/28/01	8/29/01	8/29/01	8/29/01	8/29/01	8/29/01	8/29/01	8/30/01	8/30/01	8/30/01	8/30/01	8/30/01	8/30/01
Station	UYFX	KUD	KUF	KUM	224	199	198	223	222	172	173	200	174	147	146
Longitude Start	153 50.6	153 10.4	153 18.1	153 7.3	153 49.6	153 47.8	153 55.1	153 54.4	154 15.6	154 2.7	153 48.1	153 38.3	153 39.0	153 29.7	153 39.2
Latitude Start	57 40.4	57 59.1	58 1.7	57 51.8	58 9.2	58 14.7	58 14.0	58 9.5	58 10.2	58 17.0	58 19.1	58 14.7	58 17.7	58 23.4	58 22.8
Heading, Degrees	276	95	270	298	40	217	209	225	120	35	214	7	30	30	203
Average Depth (m)	146	38	137	64	196	195	221	205	69	108	203	179	179	183	172
Distance Fished (km)	1.3	0.9	0.9	1.3	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	6.8	7.4	6.6	7	5.7	5.7	5.6	5.7	9.9	8.6	5.6	6.5	6.3	5.8	7
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	41.7	0	49.4	52.9	1.5	0.9	2.3	1	0.1	6.1	3.7	2.9	3.5	3.2	3.7
Pacific Cod	2	0	6.2	3.5	0	0	0	0	0	7.4	0	0	5.4	1.5	4.1
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	4.8	2.1	0	3.8	0	0.1	0.5	0.3	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
Sablefish	0	0	0	0.7	14.2	9.9	34.6	27	0.4	0	3.2	8.4	7.2	1.1	21
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	8.9	1.4	4.8	29.2	1.4	2	0	0.2	1.2	0	1.4	3.4	0	0.2	0.4
Other Roundfish	8.1	0	0	0.1	0.4	3	1.4	0.3	0.3	3.1	0.9	0.8	0.1	1.1	4.4
TOTAL ROUNDFISH	60.8	1.4	60.4	86.4	22.3	17.9	38.3	32.4	2.2	16.7	9.7	15.7	16.2	7.1	33.6
Arrowtooth Flndr	106.7	15.9	111.4	30.5	132	92.1	63.5	92.9	49.4	64.9	109.4	218.3	167.7	135.7	161.4
Flathead Sole	117.1	2.6	288.5	290.1	12.9	16.8	2.7	13.6	221.5	8.1	7.4	23.3	13.4	7.6	16.5
Rock Sole	0	258.2	0	5.9	0	0	0	0	0	0	0	0	0	0	0
Rex Sole	0.1	0	17.4	0	1	0.2	0.1	0.2	31.3	0.1	0.7	0.8	0.7	1.6	2.4
Dover Sole	0	0	40.6	0	0	0	0	0	0	0	0	0	0	0	0.4
Pacific Halibut	5.7	13.8	10.7	3.1	3.4	13.8	8.1	7.9	8.9	0	0	18.1	7.7	3	32.9
Starry Flndr	0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	204.9	0	0	0	0	0	0	0	0	0	0	0
Other Flatfish	0	0	0	15.4	0	0	0	0	0	0	0	0	0	0	0
TOTAL FLATFISH	229.5	290.5	468.6	554.6	149.4	122.9	74.4	114.6	311	73.1	117.6	260.5	189.5	148	213.6
Skates	10.3	0	47.5	11.9	19.8	68.5	26.8	8.2	122.4	108	17.4	68	29.8	17.8	102.5
Spiny Dogfish	0	0	0	0	0	0	0	0	36.4	5.7	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	82.5	0	6.8	0.3	12.4	20.8	7.8	9.4	0	0	9	11.5	7.8	9.9	7.1
Red King Crab	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	7.3	0	6.4	0	8.3	3.1	1.5	3.4	3.7	6.4	2.4	9.8	4.6	2.8	4.7
Scallop	0	0.1	0.6	0	0	0	0	0	25.5	6.6	0	0	0	0.7	1.1
Other Inverts	13	121.4	61.4	118.2	15.9	36.5	14.2	11.2	71.5	54	20.8	8.1	57.5	31.7	10.4
TOTAL INVERTS	102.8	121.5	75.2	118.5	36.5	60.3	23.5	24	100.8	67	32.3	29.4	69.9	44.9	23.3
Other	3.5	6.6	1.9	18.8	1.2	0.6	2.1	8.1	2.1	1.9	1.9	1.9	0.5	1.9	2.4
TOTAL CATCH (kg/km)	407	420.1	653.7	790.3	229.2	270.2	165.1	187.2	574.9	272.3	178.8	375.4	306	219.8	375.4

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Appendix B. (Page 22 of 24)

Haul	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330
Location	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.
Month/Day/Year	8/30/01	8/31/01	8/31/01	8/31/01	8/31/01	8/31/01	8/31/01	9/1/01	9/1/01	9/1/01	9/1/01	9/1/01	9/1/01	9/1/01	9/1/01
Station	145	171	171X	171Y	118	119	120	121	144	117	90	91	60	61	31
Longitude Start	153 49.3	154 15.4	154 11.7	154 5.9	153 37.6	153 28.7	153 17.6	153 11.0	153 58.3	153 47.9	153 31.6	153 24.9	153 20.7	153 14.7	153 12.5
Latitude Start	58 26.1	58 18.2	58 19.5	58 19.1	58 29.0	58 28.6	58 29.5	58 29.1	58 26.1	58 27.2	58 32.5	58 34.3	58 37.7	58 39.4	58 43.2
Heading, Degrees	211	69	79	98	53	200	40	211	60	45	45	53	44	40	205
Average Depth (m)	102	110	108	68	133	150	172	172	88	95	121	132	119	159	155
Distance Fished (km)	1.9	1.3	1.9	1.1	1.1	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.3	1.9
Bottom Temperature (°C)	8.6	8.4	8.5	9.4	8	7.2	5.9	6.3	8.6	8.8	8.1	8.1	7.7	6.9	7.1
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
kilograms/kilometers															
Pollock	13.7	8.2	7	5.8	0.2	3.4	12	0.8	16.8	3.7	3.7	0.1	2.7	12.3	11.2
Pacific Cod	3.5	27.5	12.8	1.9	2.8	3.9	3	0	7.5	1.6	10	0	10.8	17.8	27.6
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfsh	0	0	0	0.3	0	0	0.5	0	0	0	0	0	0	0	0
Thomyhead Rkfsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0.6	0	0	0.5	4.1	10.9	12	9.3	0	0	1.3	1.6	1.2	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpins	0.1	3.8	0	1.7	0	0	0.7	0.5	0.9	0.2	0	0.6	0	0.9	0
Other Roundfish	0.8	0.4	1.8	6.1	0.4	1.3	10.6	1.4	0.9	3.2	2.8	3.5	6.1	3.4	2.3
TOTAL ROUNDFISH	18.7	40	21.7	16.7	7.5	19.6	38.7	12	26.1	8.8	17.8	5.8	20.8	34.3	41.1
Arrowtooth Flndr	147.7	40.7	51.5	33.4	156.6	174.8	129.1	78.5	34.9	116.5	138.4	107.2	177	124.7	130.4
Flathead Sole	116.9	53.7	37	81.3	53.7	20.3	17.5	18.2	89.3	89.2	11.6	17.4	31.8	5	28.9
Rock Sole	0	0	0	1.5	0	0	0	0	0	0	0	0	0.6	0.9	0.1
Rex Sole	0.1	0.1	0.2	0.9	0	0	1.2	0.2	1.1	0.8	0	0	0	8.5	8
Dover Sole	0	0	0	0	0.2	0.4	0.4	0.2	0	0	0.9	1.5	1.5	0	0
Pacific Halibut	27.6	76.9	4.1	3.8	12.5	9	2.8	10.1	28.9	32.9	49.4	5.6	43.2	17.1	7.7
Starry Flndr	0	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flatfish	0	7.7	0	0	0	0	0	0	22.2	0	0	0	0	0	0
TOTAL FLATFISH	292.2	182.6	92.8	120.9	223.1	204.6	150.9	107.2	176.4	239.4	200.3	132.3	254.4	155.4	177.9
Skates	56.8	92	23.4	67.9	44.2	21.6	32	22.2	150.2	61.3	40.2	43.7	61.4	54.4	58.8
Spiny Dogfish	15.6	14.4	10.4	20.4	5	0	2.5	0	1.9	15.6	2.8	17.2	2.7	0	0
Other Elasmobrth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	1.8	0	181.2	1.3	4.4	7.3	3.6	5.3	0.2	0.1	2.5	0.8	0.1	0.7	1
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	2.2	21.8	19.2	7.3	8.5	2.9	2.7	1.1	2.8	7.9	2.1	3.4	5.7	1.3	3
Scallop	15.4	0	0.1	0.8	6.2	4.7	3.7	0	0.7	8	10.9	10.9	6.8	2.2	20.5
Other Inverts	12.9	30.8	14.8	39.7	20.8	29.8	6.7	14.2	25.6	22.5	1.2	7.4	6.1	27.8	38.4
TOTAL INVERTS	32.2	52.5	216.2	49	39.9	44.7	16.7	20.6	29.4	38.5	16.8	22.5	18.7	32.1	62.9
Other	6.2	15.1	4.7	5.8	2.4	4	0	3.1	3.7	31.7	2.9	8.9	7.8	0	1
TOTAL CATCH (kg/km)	421.7	396.6	369.1	280.7	322.1	294.4	240.8	165.1	387.7	395.4	280.8	280.3	365.9	276.3	341.7

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Appendix B. (Page 23 of 24)

Haul	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345
Location	N.MAIN.	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD
Month/Day/Year	9/1/01	9/2/01	9/2/01	9/2/01	9/2/01	9/2/01	9/3/01	9/3/01	9/3/01	9/3/01	9/3/01	9/3/01	9/3/01	9/3/01	9/4/01
Station	2	PAA	MAA	RAA	KUG	KUI	KUYX	KUY	KUNX	KUP	KUQ	KUS	KUT	KUXX	KUW
Longitude Start	153 12.3	152 57.0	153 5.0	153 13.9	153 26.0	153 22.9	153 12.8	153 11.7	153 22.8	153 27.2	153 32.1	153 33.1	153 31.2	153 24.4	153 31.1
Latitude Start	58 47.0	58 18.0	58 13.0	58 8.7	58 2.5	57 58.3	57 44.5	57 46.4	57 50.2	57 51.5	57 53.7	57 52.4	57 49.6	57 46.1	57 40.9
Heading, Degrees	0	330	286	136	180	291	24	3	296	296	147	137	165	314	345
Average Depth (m)	137	119	132	116	77	236	22	64	128	183	185	179	177	124	66
Distance Fished (km)	1.1	1.3	1.9	1.9	0.9	1.9	1.3	1.9	1.9	1.9	1.9	1.1	1.9	0.9	1.7
Bottom Temperature (°C)	7.3	7.4	6.9	7.3	7.2	6.5	8.8	8.3	6.5	6.2	6.2	6.1	6.3	7.5	
Net Performance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-----kilograms/kilometers-----															
Pollock	13.4	46.6	110.9	398.4	0	19.3	11.9	28.7	10.9	4	16.1	61.7	33.3	35.6	13.7
Pacific Cod	18.1	23.7	11.5	2.1	83	15.9	0	2.9	3.9	0	5.9	44.1	3.3	6.7	23.7
Pac Ocean Perch	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0
Thornyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0.4	0	0	7.4	0	0.3	0	0.4	1.7	0	0	0	0
Sablefish	0	0	0.7	0.5	0	0	3.8	0.9	0	0	0	0	0	1.3	1.3
Herring	0	0	0	0	0	0	0.4	0.1	0	0	0	0	0	0.2	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	1.7	0.4	0.5	0.2	23.3	6	29.9	23.2	7.5	2.6	2.3	0.8	0.6	3.6
Other Roundfish	2	4	1.3	3.9	2.1	19.2	3.8	3.9	11.7	3.8	8.4	11.7	5.5	16.4	3.7
TOTAL ROUNDFISH	33.5	76.1	125.1	405.3	85.4	87.2	25.9	66.6	49.7	15.7	34.8	119.9	42.9	60.8	45
Arrowtooth Flndr	208	173.8	69.6	111.7	329.9	50.5	0	2.9	229.4	151.7	208.3	153.9	113.2	238.9	29.6
Flathead Sole	36.6	139.5	209.2	195.9	9.5	173.1	190.2	386.4	342.4	151.7	78.7	133.4	81.3	155.3	924.3
Rock Sole	0	0	0	0	9	0	3.2	0	0	0	0	0	0	1.9	0
Rex Sole	2.7	0	3.1	3.4	53	22.8	0	0	0	2.7	0	0	0	0	0
Dover Sole	0.2	0	2.2	22.8	24.1	3.1	0	0	0	0	1.2	0	0.7	0	0
Pacific Halibut	7.9	13.6	0	31.5	40.7	28.4	1.1	30.6	3.5	8.8	48	2.4	35.9	0	15
Starry Flndr	0	0	0	0	0	0	137.6	12	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	707.7	138.1	0	0	0	0	0	0	0	165.2
Other Flatfish	4.5	0	10.1	9.8	6.6	0	5.2	0	0	0	0	0	0	32.2	76.1
TOTAL FLATFISH	259.8	327	294.1	375.1	472.9	277.9	1045	570	575.4	314.9	336.1	289.7	231.2	428.2	1210.2
Skates	36	33.1	12.7	38.4	27.7	24.8	19.2	34.9	25.3	7.1	10.4	4.5	5.2	8.5	5.1
Spiny Dogfish	2.5	0	0	2.7	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	1.9	17.6	1.1	0.1	0	27.2	0	10.4	64.7	23.9	29.3	52.5	22.4	130.5	5.1
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	1.6
Shrimp	0.4	5.2	4.4	1.5	0	15	0	0	14.4	10.9	5.6	0.9	4.9	7.4	0.4
Scallop	7.7	0.2	0.2	4	0	0	0	0.4	0	0	0	0	0	0	0.4
Other Inverts	32.1	12.6	13.6	31.6	78.8	28.9	131.9	166.5	13.5	12.2	8	19.3	18.8	36.2	10.1
TOTAL INVERTS	42.2	35.6	19.2	37.1	78.8	71.1	131.9	177.5	92.6	47	42.9	72.7	46.1	174.2	17.6
Other	3.1	0.6	0	0.5	1.2	3.7	232.3	19.4	21.5	5.4	3.8	4.1	1.6	8.7	1.4
TOTAL CATCH (kg/km)	377.2	472.4	451.1	859.1	666	464.8	1454.2	868.6	764.5	390.1	428	490.9	327	680.3	1280.3

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Appendix B. (Page 24 of 24)

Haul	346	347	348	349	350	351	352
Location	W.KOD						
Month/Day/Year	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01	9/4/01
Station	KUV	KUU	KUX	KUL	KULX	KUK	KUJ
Longitude Start	153 31.6	153 30.4	153 22.6	153 12.4	153 13.5	153 14.8	153 17.8
Latitude Start	57 44.4	57 46.4	57 44.1	57 50.0	57 51.8	57 55.0	57 56.2
Heading, Degrees	0	10	0	355	141	295	305
Average Depth (m)	82	155	104	80	99	141	163
Distance Fished (km)	1.1	1.9	1.7	1.9	0.7	1.9	1.9
Bottom Temperature (°C)	6.7	6.2	6.2	7.1	7.1	6.6	6.6
Net Performance	1	1	1	1	1	1	1
—————kilograms/kilometers—————							
Pollock	498.6	15	136.7	26.9	8.9	11.8	14.8
Pacific Cod	37.6	12.5	17.5	1.7	2.4	0	11.7
Pac Ocean Perch	0	0	0.6	0	0	0	0
Rougheye Rkfish	0	0	0	0	0	0	0
Thomy head Rkf <h></h>	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0
Sablefish	13.6	0.7	3.1	0	0	0	0
Herring	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0
Sculpins	0	1.2	9.6	5.7	4.1	3.5	4.4
Other Roundfish	0	6.5	17.4	0.8	0.9	5.3	1
TOTAL ROUNDFISH	549.8	35.9	184.9	35.1	16.3	20.6	31.9
Arrowtooth Flndr	68	174.6	250.8	85.3	130.5	268.2	270.7
Flathead Sole	120.6	251.8	297.5	155.9	80.4	298.5	184
Rock Sole	12.6	1.5	1.6	0	0	0	0
Rex Sole	15.2	0	2.2	0.7	0	2.5	1
Dover Sole	8.3	0	0	3.9	1.4	0	0
Pacific Halibut	46.7	4.8	22.1	10.5	0	54.7	53.8
Starry Flndr	0	0	0	0	0	0	0
Yellowfin Sole	28.7	0	6.2	31	19.9	0	0
Other Flatfish	216.9	0	56.2	122.5	52.8	0	0
TOTAL FLATFISH	517.1	432.7	636.6	409.8	285	623.9	509.5
Skates	1.6	17.1	9.9	33.1	8.9	0	7.6
Spiny Dogfish	0	0	0	0	0	0	0
Other Elasmobr <h></h>	0	0	0	0	0	0	0
Tanner Crab	5	77.7	131.8	70	155.8	16	138.3
Red King Crab	0	0.1	0	0	0	0	0
Dungeness Crab	0.2	0	0	3.7	0	0	0
Shrimp	0	8	0.8	0.5	0.5	11.8	24.2
Scallop	14.1	0	1.4	0	0	0	0
Other Inverts	36.3	39.6	51.7	49.1	29.9	22.5	2.5
TOTAL INVERTS	55.5	125.4	185.7	123.4	186.1	50.3	165
Other	5.9	3	14	0	4.5	3.5	0
TOTAL CATCH (kg/km)	1129.9	614.1	1031	601.5	500.8	698.2	714

Appendix C. Stations fished during the 2001 Westward Region trawl survey, divided into districts, sections, and strata with areas in square nautical miles.

KODIAK DISTRICT											
NORTHEAST SECTION			EASTSIDE SECTION			SOUTHEAST SECTION			SOUTHWEST SECTION		
Inner Marmot			Ugak Bay			South Sitkalidak			Alltak Flats		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
KZA	11.7	3.4	UGAA	16.1	4.7	THA	15.1	4.4	645B	34.4	10.0
KZB	2.8	0.8	UGAB	4.7	1.4	THC	10.8	5.7	646A	27.2	7.9
KZC	12.4	3.6	UGAC	3.2	0.9	THD	28.7	8.3	646B	16.5	4.8
KZD	23.7	6.9	UGB	5.8	1.7	THF	22.4	6.5	646C	29.2	8.5
KZE	27.5	8.0	UGC	17.5	5.1	THG	21.5	6.3	646D	37.5	10.9
KZF	20.6	6.0	UGD	11.0	3.2	THH	19.3	5.6	682B	23.0	6.7
KZG	21.3	6.2	UGE	12.7	3.7	THI	21.7	6.3	683A	23.0	6.7
KZJ	21.5	6.3	UGF	15.8	4.6	THJ	17.9	5.2	683B	21.0	6.1
KZK	21.5	6.3	UGG	11.0	3.2	THK	16.5	4.8	683D	9.3	2.7
KZO	21.5	6.3	UGI	22.4	6.5	THL	9.3	2.7	684A	23.0	6.7
KZR	13.8	4.0	UGJ	21.5	6.3	THM	10.7	3.1	684B	10.3	3.0
KZS	3.1	0.9	UGM	18.9	4.9	THN	5.2	1.5	684C	8.6	2.5
	201.4	58.8		158.7	46.1		207.7	60.4		263.2	76.5
Middle Marmot			Kiliuda Bay			Offshore Twoheaded			Alltak Bay		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
MOEX	78.4	22.8	KLA	21.0	6.1	586	86.0	25.0	ALA	3.1	0.9
MOGX	78.0	22.1	KLB	9.3	2.7	614	64.3	18.7	ALB	17.8	5.2
MOLX	77.7	22.6	KLC	19.6	5.7	615	99.8	29.0	ALC	8.2	2.4
MONX	86.0	25.0	KLD	18.2	5.3	651	86.0	25.0	ALD	13.1	3.8
MOPX	97.7	28.4	KLE	8.3	2.4		336.1	97.7	ALF	21.5	6.3
MOQ	21.5	6.3	KLF	15.1	4.4				ALG	20.0	5.8
MOT	20.0	5.8	KLG	16.5	4.8				ALH	16.2	4.7
MOX	13.1	3.8	KLH	16.9	4.9				ALI	16.7	4.9
MOXX	81.2	23.6	KLI	21.5	6.25				ALJ	15.1	4.4
	551.8	160.4	KLL	21.5	6.25				ALK	10.0	2.9
				187.0	48.8				ALL	8.3	2.4
Outer Marmot			Horseshoe/Barnabas			Horse's Head			ALM		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
255	129.0	37.5	486A	28.0	8.1	618A	43.0	12.5	ALO	16.9	4.9
256	86.0	25.0	486B	29.4	8.6	585X	94.6	27.5	ALP	19.3	5.6
257	86.0	25.0	510B	63.2	18.4	728	86.0	25.0	ALQ	14.4	4.2
283	129.0	37.5	510C	40.8	11.9	729	86.0	25.0	ALR	13.4	3.9
284	86.0	25.0	511A	43.0	12.5					230.0	66.9
285	86.0	25.0	511B	43.0	12.5						
313	86.0	25.0	533A	43.0	12.5						
314	86.0	25.0	533B	43.0	12.5						
255X	60.2	17.5	534B	21.5	6.3						
283X	63.6	18.5	534D	28.4	8.3						
	897.8	261.0	535A	21.5	6.3						
Chiniak Gully			535B	21.5	6.3						
Station	KM ²	NM ²	535C	21.5	6.3						
369X	151.4	44.0	535D	21.5	6.3						
395	86.0	25.0	559	86.0	25.0						
420	86.0	25.0	560	86.0	25.0						
421	86.0	25.0	561	86.0	25.0						
443	86.0	25.0	567	86.0	25.0						
444	86.0	25.0	588	86.0	25.0						
	581.4	169.0	589	86.0	25.0						
Chiniak			619	86.0	25.0						
Station	KM ²	NM ²	620	86.0	25.0						
CHA	5.5	1.6	621	86.0	25.0						
CHB	7.9	2.3	654	86.0	25.0						
CHE	20.6	6.0	655	86.0	25.0						
CHF	12.7	3.7	658	86.0	25.0						
CHG	34.7	10.1	695	86.0	25.0						
CHJ	35.8	10.4	696	86.0	25.0						
CHK	8.6	2.5									
CHL	14.1	4.1									
	140.0	40.7				1673.3	486.4				

-Continued-

Appendix C. (page 2 of 3)

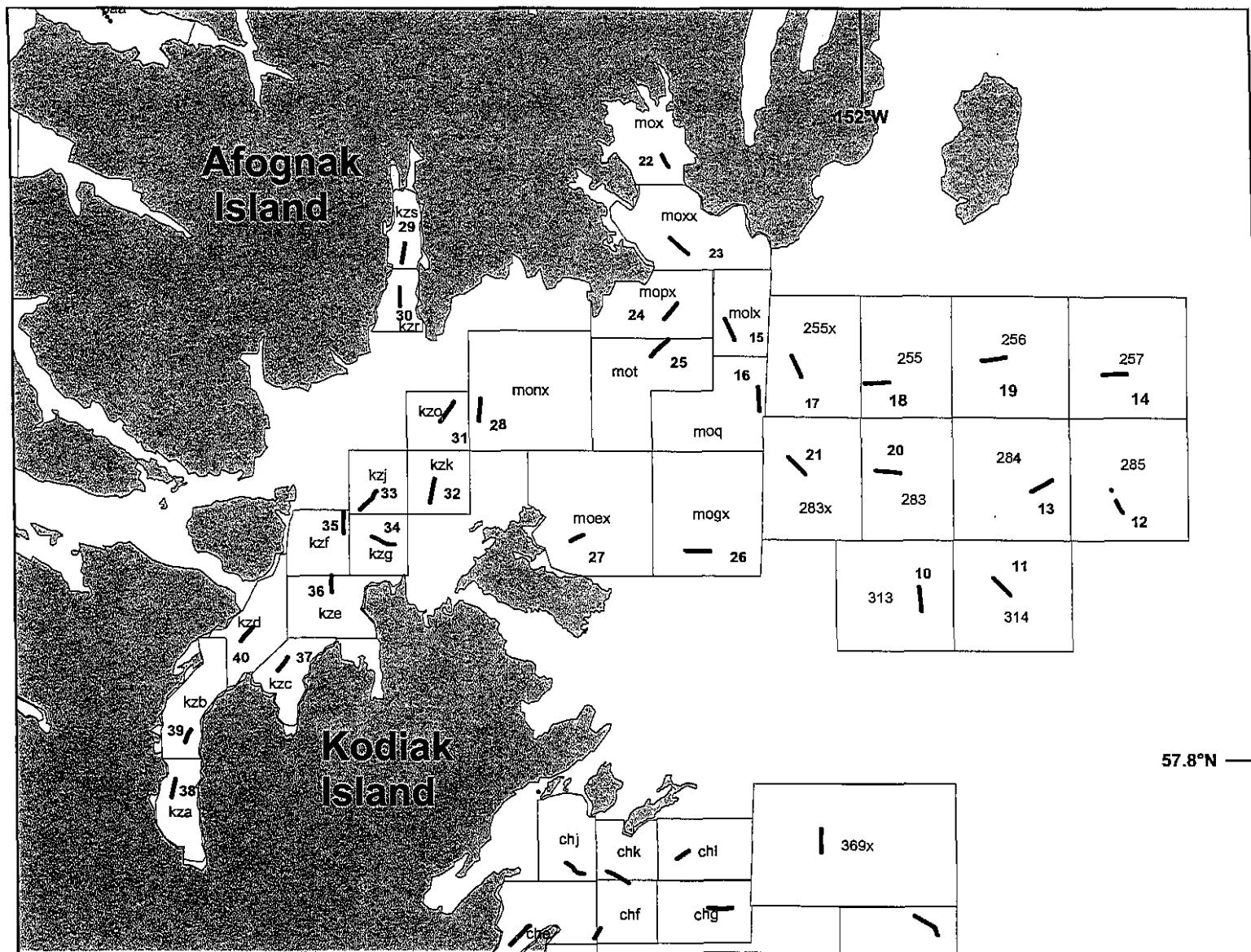
KODIAK DISTRICT (Continued)											
N.MAINLAND SECTION			WESTSIDE SECTION								
			Uyak Bay			Kupreanof-Viekoda			Uganik Bay		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
2	86.0	25.0	UYBX	21.5	6.3	KUD	27.2	7.9	KUNX	10.8	3.1
31	83.9	24.4	UYEX	30.0	8.7	KUF	11.3	3.3	KUP	13.3	3.9
60	86.0	25.0	UYFX	22.1	6.4	KUG	15.5	4.5	KUQ	20.6	6.0
61	86.0	25.0	UYHX	4.1	1.2	KUI	6.4	1.9	KUS	12.2	3.5
90	80.5	23.4	UYKX	13.9	4.0	KUJ	17.0	5.0	KUT	9.4	2.7
91	86.0	25.0	UYMX	20.9	6.1	KUK	14.1	4.1	KUU	13.7	4.0
117	98.0	28.5	UYO	3.4	1.0	KUL	2.7	0.79	KUV	4.1	1.2
118	86.0	25.0	UYQX	7.7	2.2	KUM	10.5	3.1	KUW	5.2	1.5
119	86.0	25.0	UYSS	6.1	1.8	KUY	4.1	1.2	KUX	4.1	1.2
120	86.0	25.0	UYT	2.9	0.8	KULX	2.1	0.61	KUXX	5.6	1.6
121	86.0	25.0		132.5	38.5	KUYX	2.6	0.8		99.1	28.8
144	60.9	17.7					113.6	33.0			
145	86.0	25.0									
146	86.0	25.0									
147	89.4	26.0									
171	11.5	3.3									
171X	8.1	2.4									
171Y	29.2	8.5									
172	89.4	26.0									
173	86.0	25.0									
174	86.0	25.0									
198	86.0	25.0									
199	86.0	25.0									
200	86.0	25.0									
222	113.5	33.0									
223	86.0	25.0									
224	86.0	25.0									
	2126.5	618.2									
KODIAK DISTRICT TOTALS											
			SECTION			KM ²			NM ²		
			Northeast			2953.6			858.6		
			Eastside			1999.8			581.4		
			Southeast			1713.4			498.1		
			Southwest			1697.1			493.4		
			Westside			377.4			109.7		
			N. Mainland			2126.5			618.2		
			Kodiak District			10867.9			3159.3		

CHIGNIK DISTRICT											
CHIGNIK BAY SECTION			IVANOF SECTION			KUJULLIK SECTION			MITROFANIA SECTION		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
4256	24.1	7.0	400X	5.6	1.6	4290	21.5	6.3	4035	68.8	20.0
4262	21.5	6.3	4000	15.8	4.6	4298	19.3	5.6	4048	14.8	4.3
4264	20.2	5.9	4008	42.2	12.3	4302	21.1	6.1	4063	57.3	16.7
4265	6.6	1.9	4915	51.8	15.1	4301	21.5	6.3	4064	57.3	16.7
4266	19.7	5.7	4007	59.5	17.3	4296	10.3	3.0	4065	80.3	23.3
4267	21.5	6.3	4024	65.9	19.2	4308	17.2	5.0	4094	86.0	25.0
4270	17.2	5.0	4900	10.7	3.1		110.9	32.2		364.5	106.0
4271	10.3	3.0		251.4	73.1						
4272	18.0	4.6									
4274	21.5	6.3									
4277	21.5	6.3									
4278	21.5	6.3									
4282	21.5	6.3									
4286	21.5	6.3									
4287	29.8	8.7									
4312	22.0	6.4									
4964	9.6	2.8									
	325.9	94.7									
CHIGNIK DISTRICT TOTALS											
			SECTION			KM ²			NM ²		
			Chignik Bay			325.9			94.7		
			Ivanof			251.4			73.1		
			Kujullik			110.9			32.2		
			Mitrofania			364.5			106.0		
						1052.7			308.0		

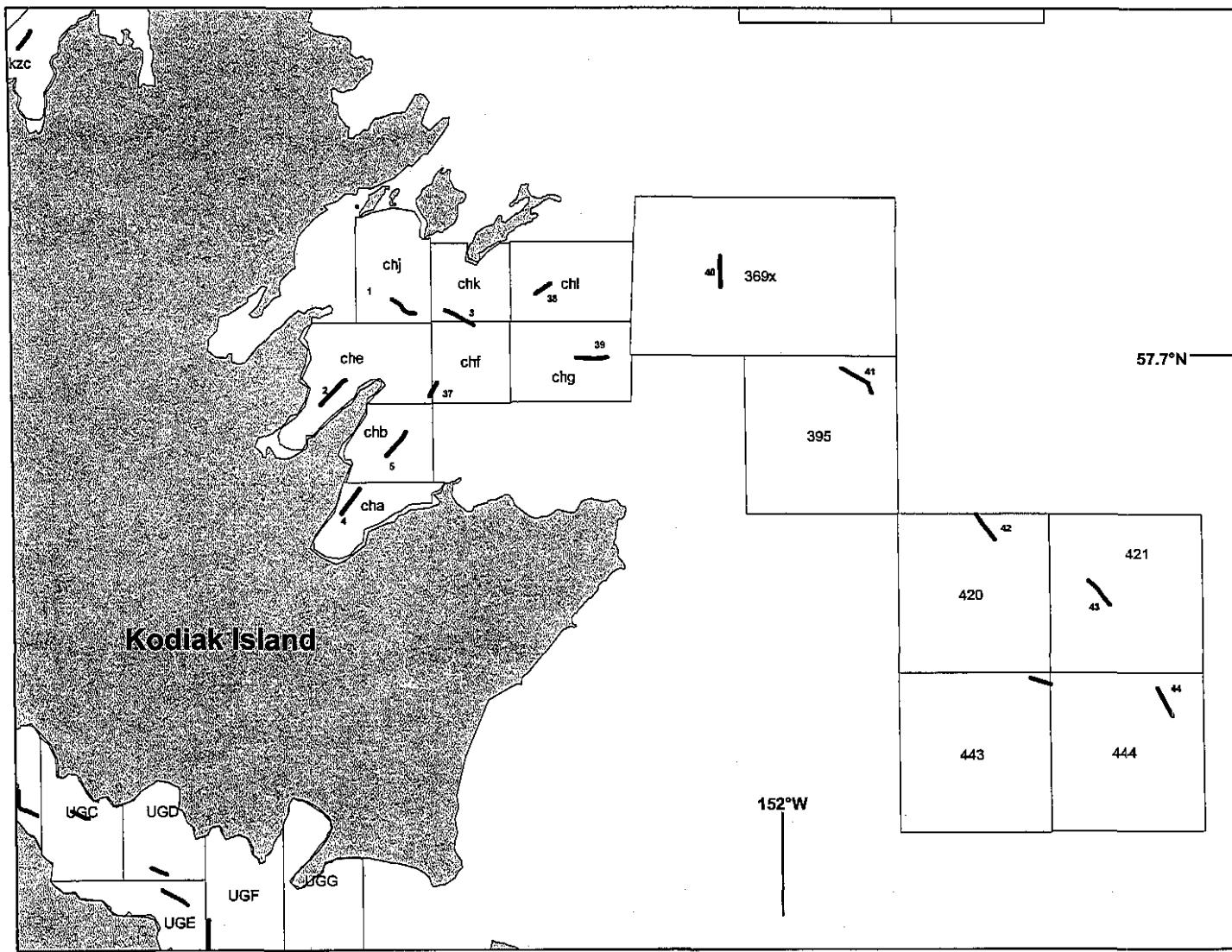
-Continued-

Appendix C. (page 3 of 3)

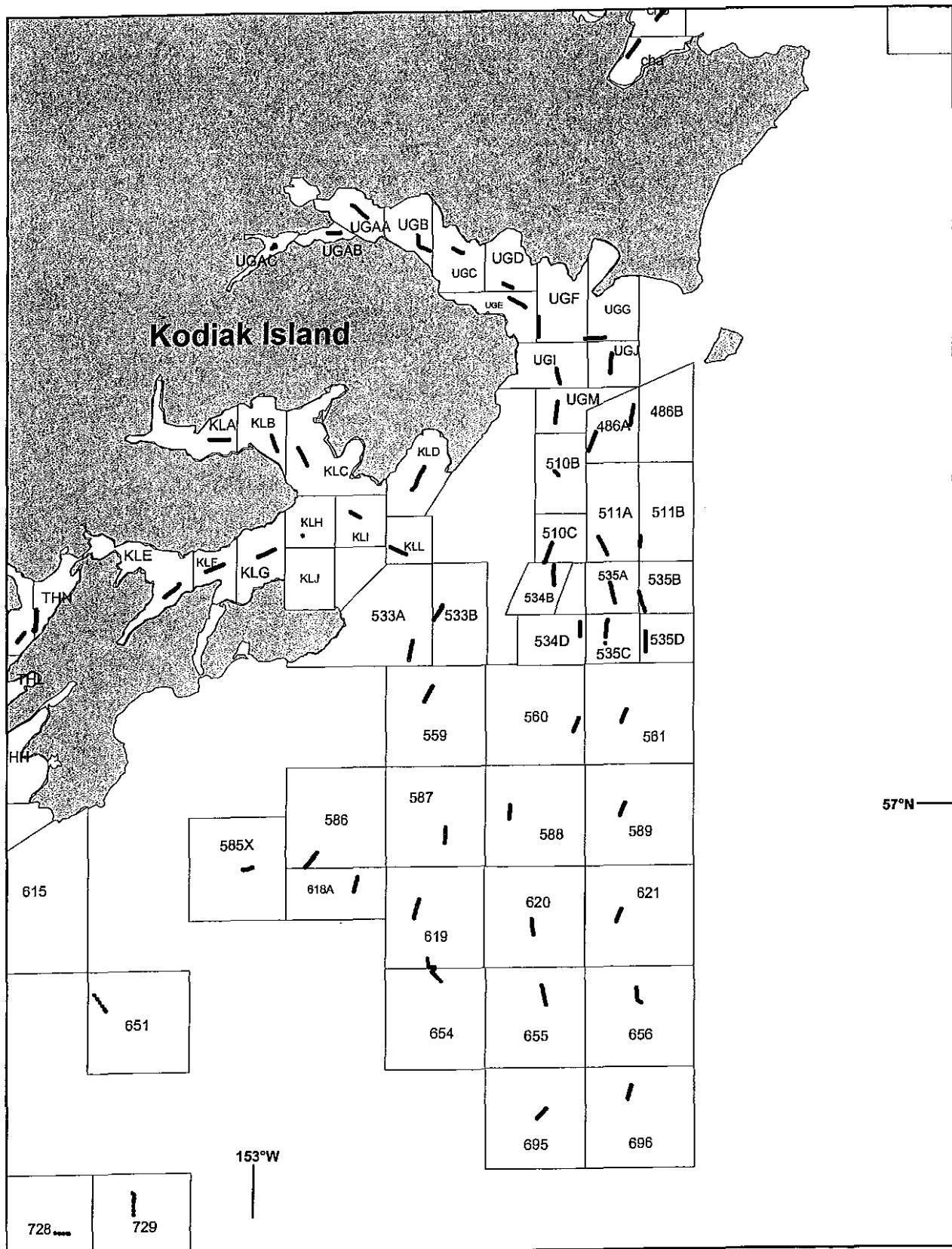
SOUTH PENINSULA DISTRICT											
SANAK SECTION			PAVLOF SECTION			COLD BAY SECTION			STEPOVAK SECTION		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
125	77.4	22.5	245	88.0	25.6	156A	44.3	12.9	368A	45.6	13.3
126	84.1	24.45	PABX	27.2	7.9	BEBX	16.0	4.6	STA	21.1	6.1
137	86.0	25	PAEX	41.7	12.1	BECX	25.7	7.5	STB	18.9	5.5
138A	46.4	13.5	PAH	15.0	4.4	BEE	21.5	6.3	STD	22.8	6.6
138B	18.5	5.37	PAIX	38.4	11.2	BEF	15.8	4.6	STE	15.6	4.5
138C	57.1	16.6	PALX	43.0	12.5	BEG	20.4	5.9		169.5	49.3
	446.9	129.9	PAOA	6.7	2.0	COB	21.2	6.2			
			PAP	20.8	6.1	COC	15.3	4.5	BEAVER/BALBOA SECTION		
			PARA	19.1	5.6	COE	21.2	6.2	Station	KM ²	NM ²
			PARB	21.1	6.1	COF	11.5	3.4	278	71.7	20.8
<u>MORZHOTOI SECTION</u>			PAU	21.5	6.3	COGA	9.8	2.9	311A	15.5	4.5
Station	KM ²	NM ²	PAV	20.6	6.0	COGB	3.6	1.1	311B	20.5	6.0
87AX	43.0	12.5	VOA	22.5	6.5	COH	7.8	2.3	312A	22.4	6.5
87D	22.4	6.5	VOBX	44.0	12.8	COM	18.6	5.4	329B	21.5	6.3
MOB	20.0	5.8	VOD	20.8	6.1	COO	22.5	6.5	329C	21.5	6.3
MOD	16.2	4.7	VOFB	15.6	4.5		296.3	86.1	348	86.0	25.0
MOF	21.5	6.25	VOG	23.1	6.7				BAA	12.0	3.5
MOG	21.5	6.25	VOH	21.8	6.3				BAC	16.9	4.9
MOH	21.4	4.9	VOI	22.2	6.4				BAD	10.4	3.0
MOI	21.5	6.25	VOLX	27.3	8.0				BAE	12.8	3.7
MOK	21.5	6.25	VOMB	17.0	4.9				BAF	10.9	3.2
MOL	21.5	6.25	VON	22.5	6.5				BVA	15.3	4.5
MOOX	56.2	16.35	VOP	21.5	6.3				BVB	14.0	4.1
MORX	58.8	17.1	VOQ	16.0	4.6				BVC	18.9	5.5
MOSX	37.8	11	VOR	21.2	6.2					370.3	107.6
	383.3	110.1		752.4	218.7						
<u>WEST NAGAI SECTION</u>											
Station	KM ²	NM ²	301	86.0	25.0	334	86.0	25.0	PENINSULA DISTRICT TOTALS		
			318	86.0	25.0	335	86.0	25.0	SECTION	KM ²	NM ²
			332B	43.0	12.5	337	86.0	25.0	Sanak	446.92	129.9
			334	86.0	25.0	353	86.3	25.1	Morzhovoi	383.29	110.1
			335	86.0	25.0	354	86.0	25.0	Cold Bay	296.3	86.1
			337	86.0	25.0	371	80.8	23.5	Pavof	752.43	218.7
			353	86.3	25.1	373A	41.9	12.2	West Nag	836.13	243.1
			354	86.0	25.0	373B	20.6	6.0	Beaver	370.28	107.6
			393	47.6	13.8		836.1	243.1	Stepovak	169.54	49.3
										3254.9	944.9



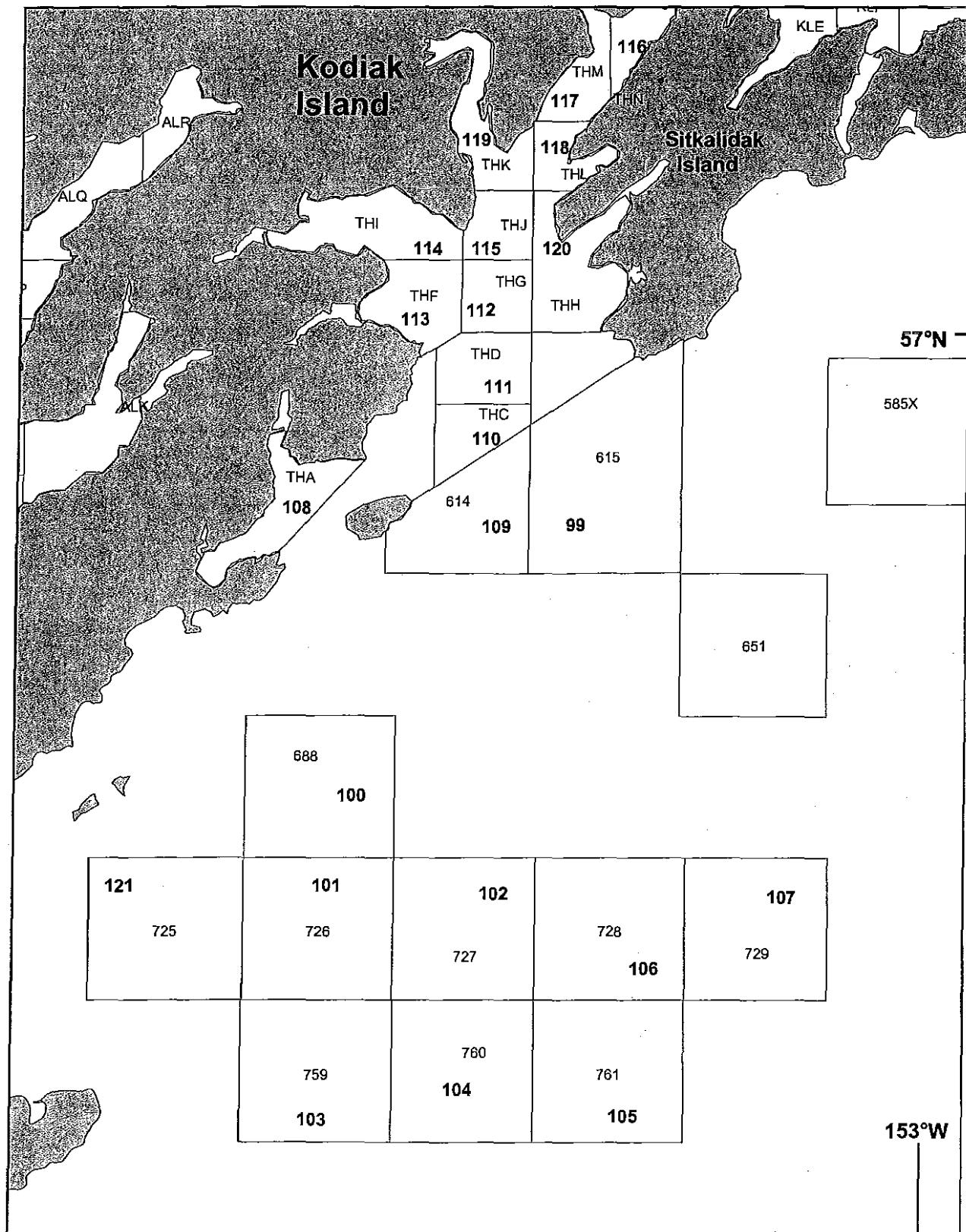
Appendix D.1. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), north Kodiak Island and offshore Marmot Bay, June 2001.



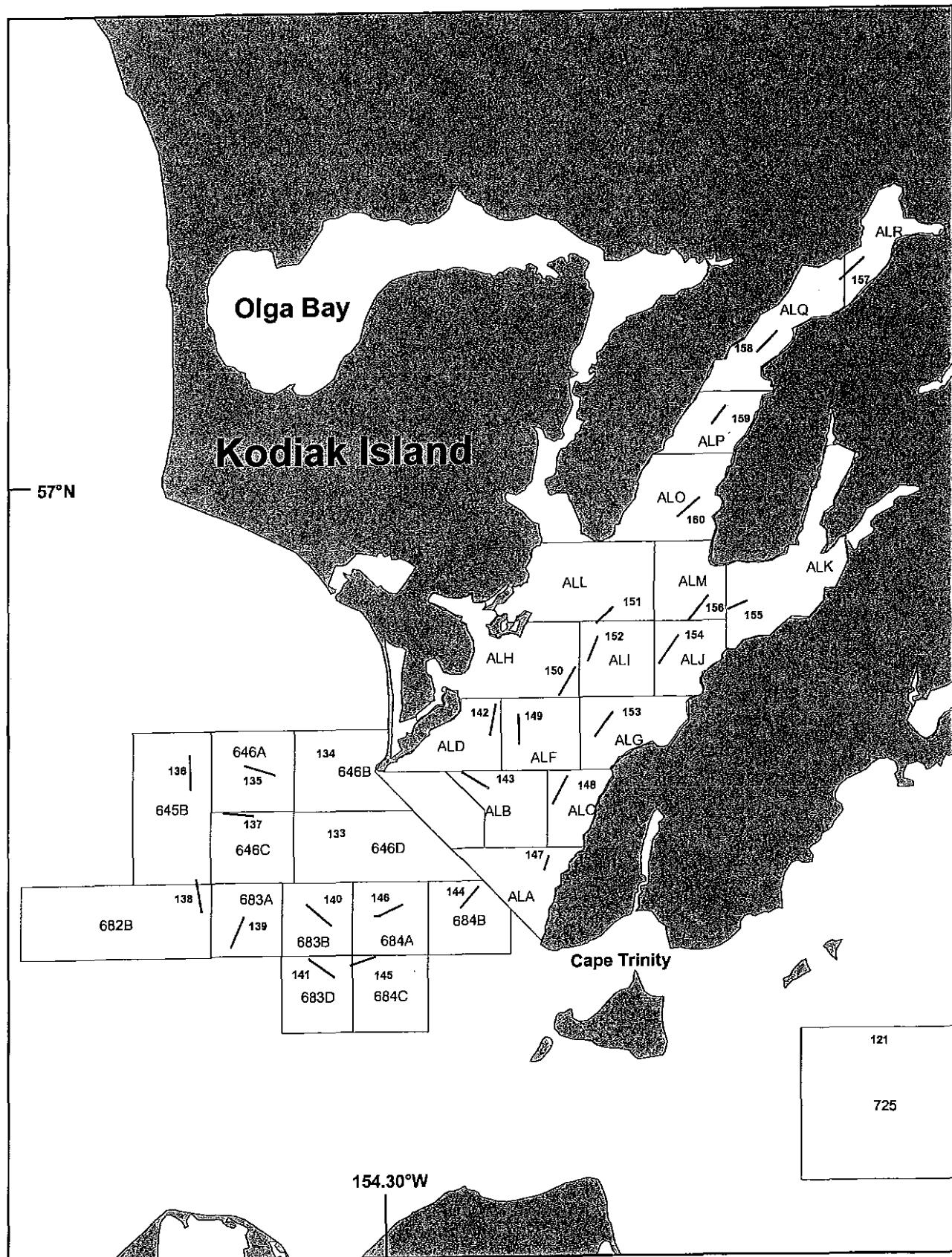
Appendix D.2. Station boundaries and names, and trawl haul numbers (bold) and locations (bold), Chiniak Bay and Chiniak Gully, June 2001.



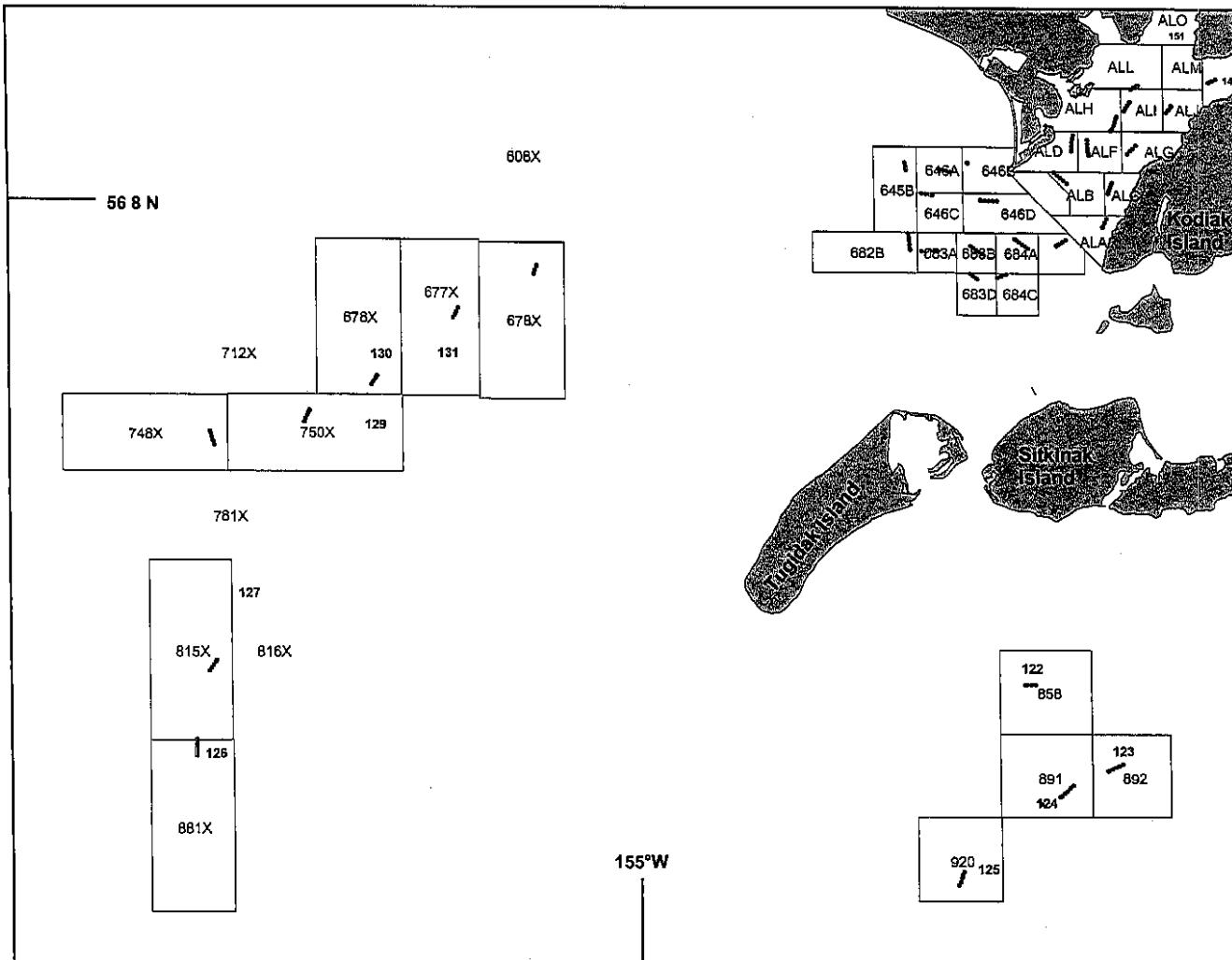
Appendix D.3. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Ugak Bay, Kiliuda Bay, and Barnabas Gully, June and July 2001.



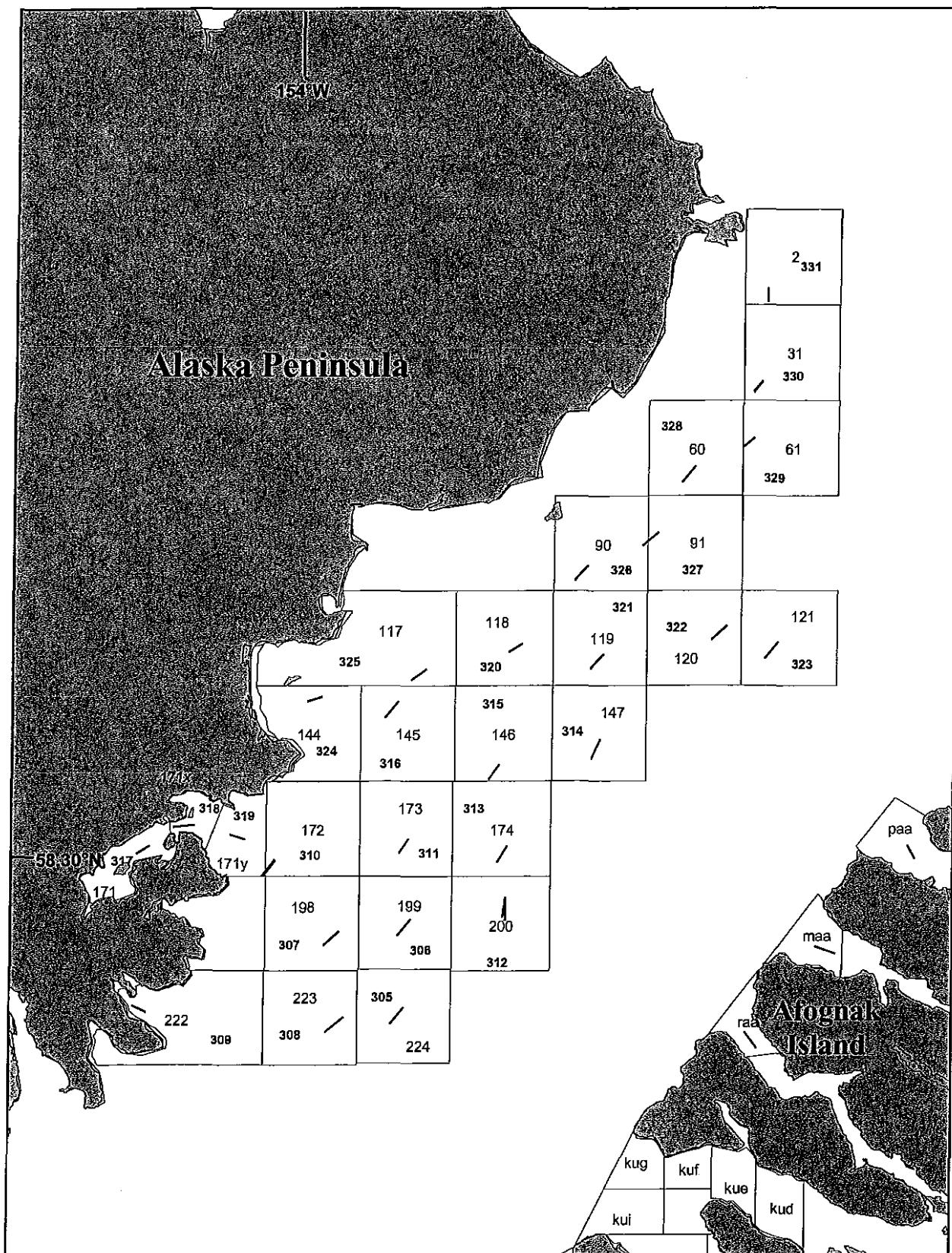
Appendix D.4. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), South Sitkalidak Strait, Two Headed Island, and Horse's Head area, July 2001.



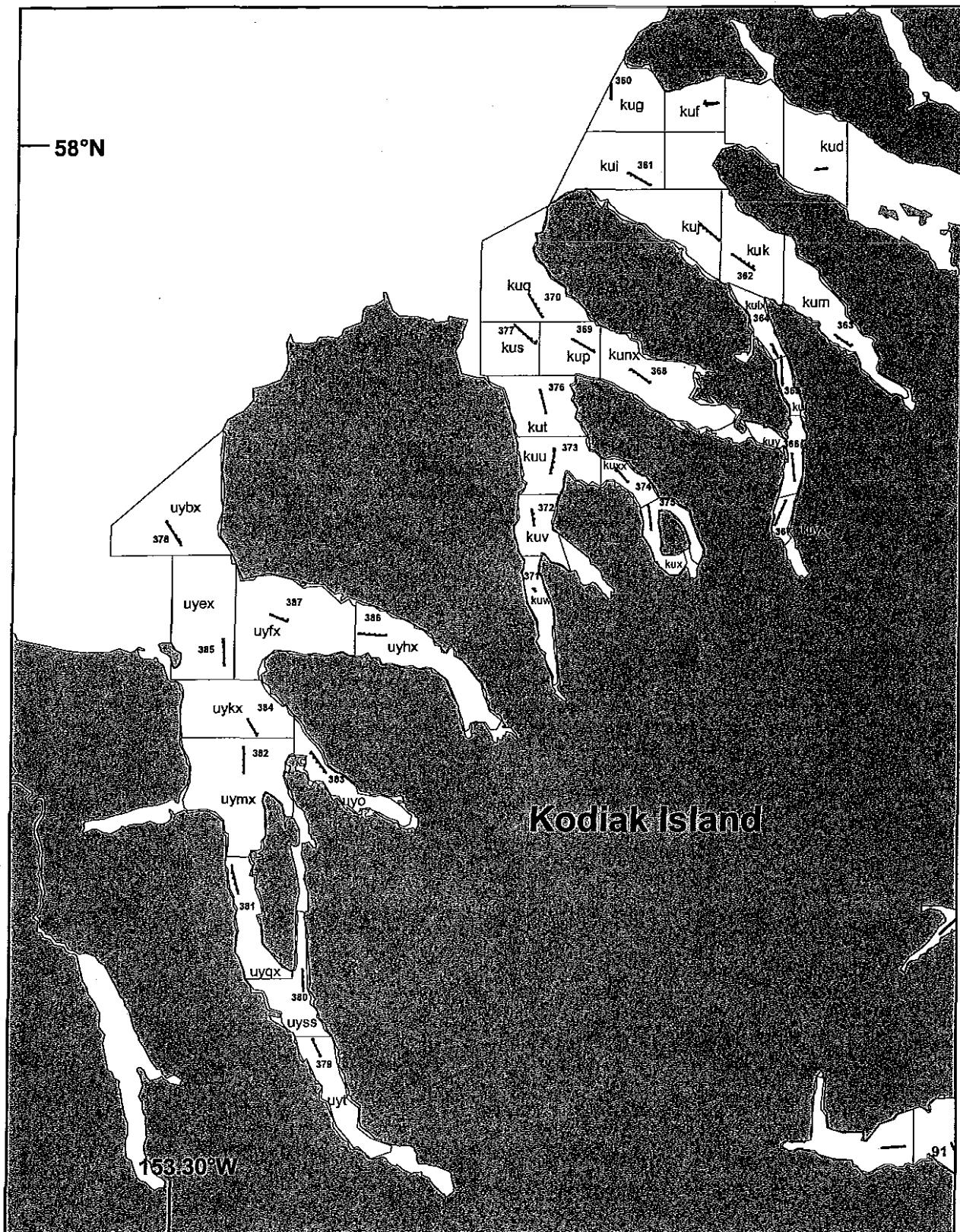
Appendix D.5. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Alitak Bay and Alitak Flats, Kodiak Island, July 2001.



Appendix D.6. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), south Kodiak Island offshore, July 2001.

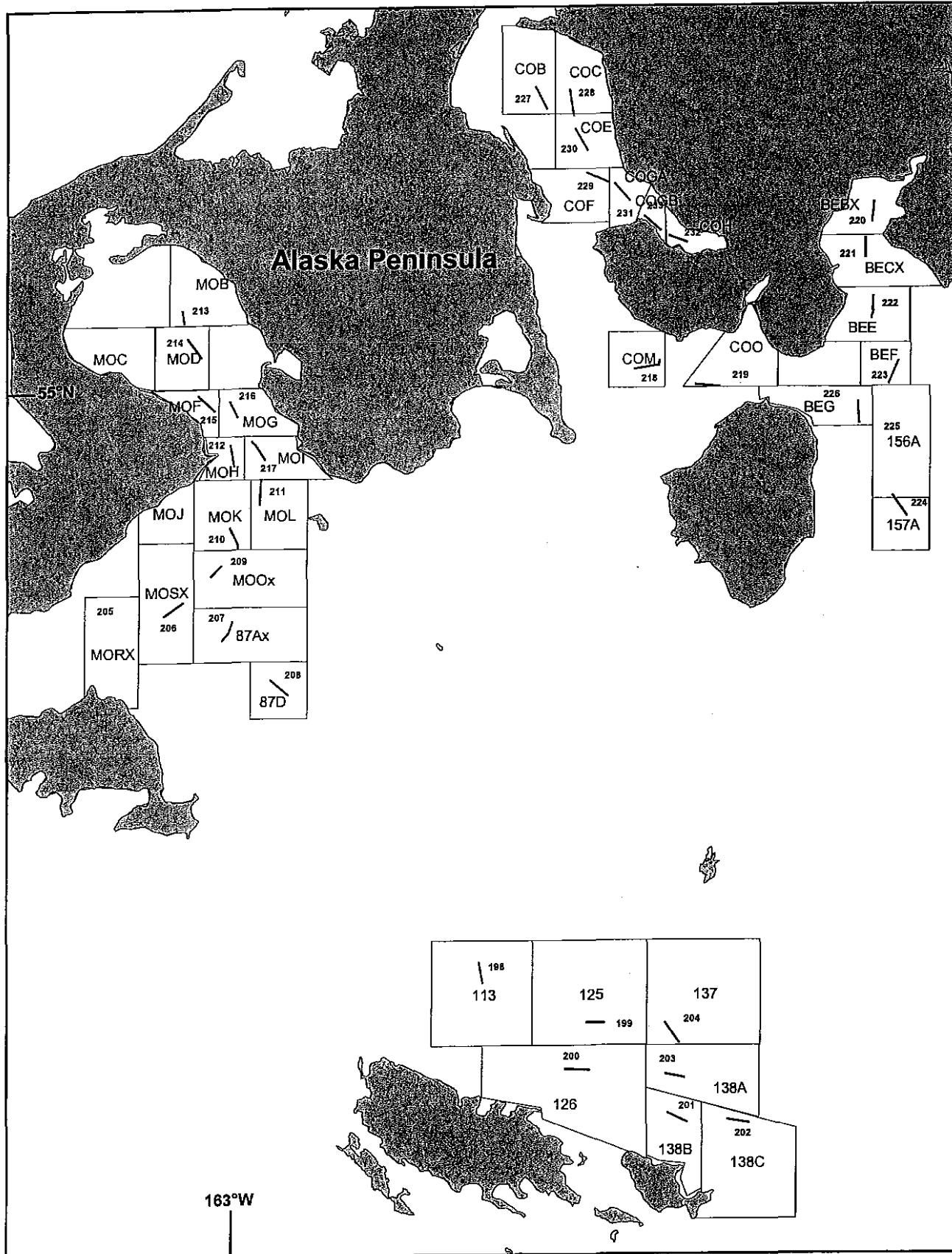


Appendix D.7. Station boundaries and names, and trawl haul numbers (bold) and locations(bold lines), Shelikof Strait, September 2001.

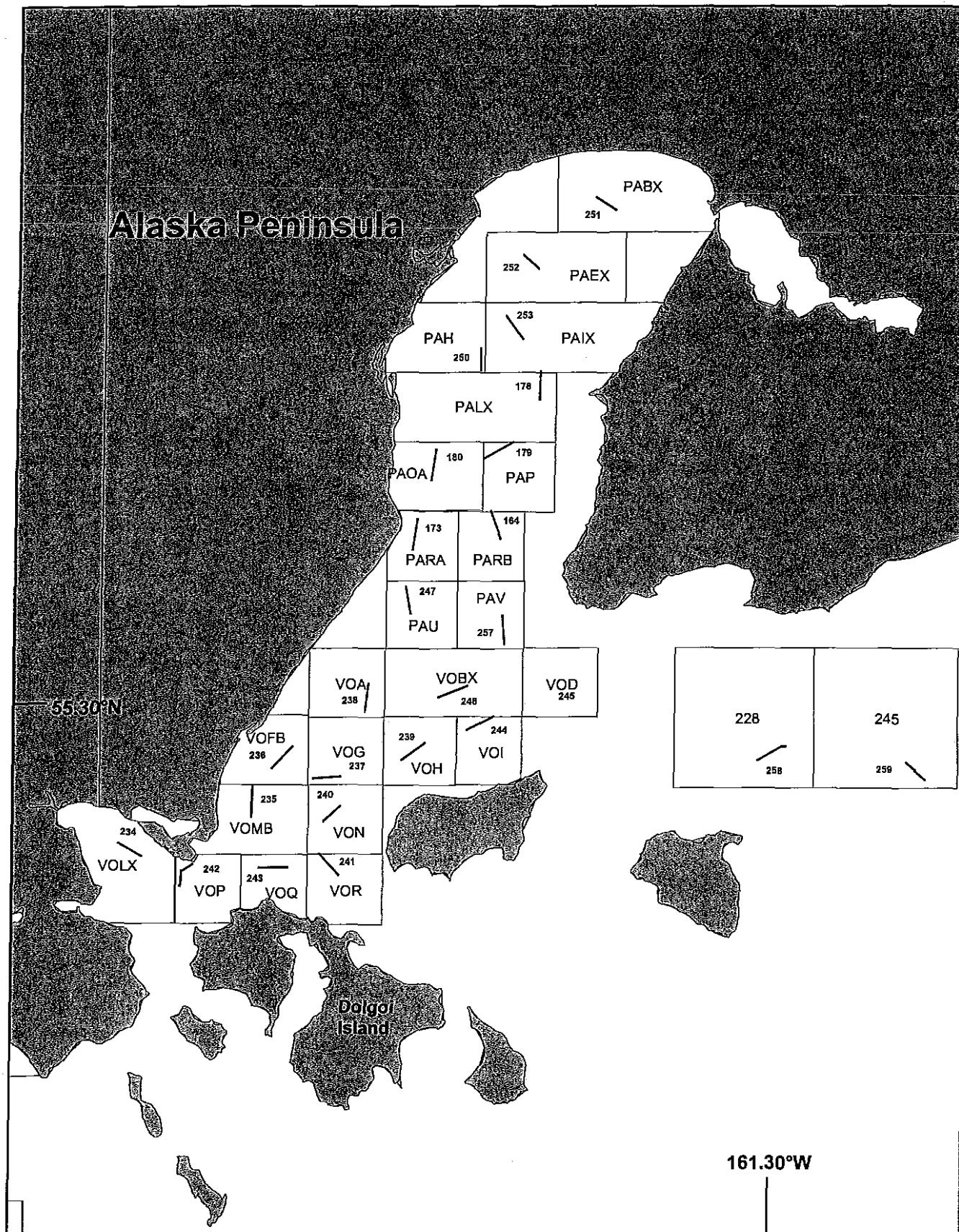


Appendix D.8.

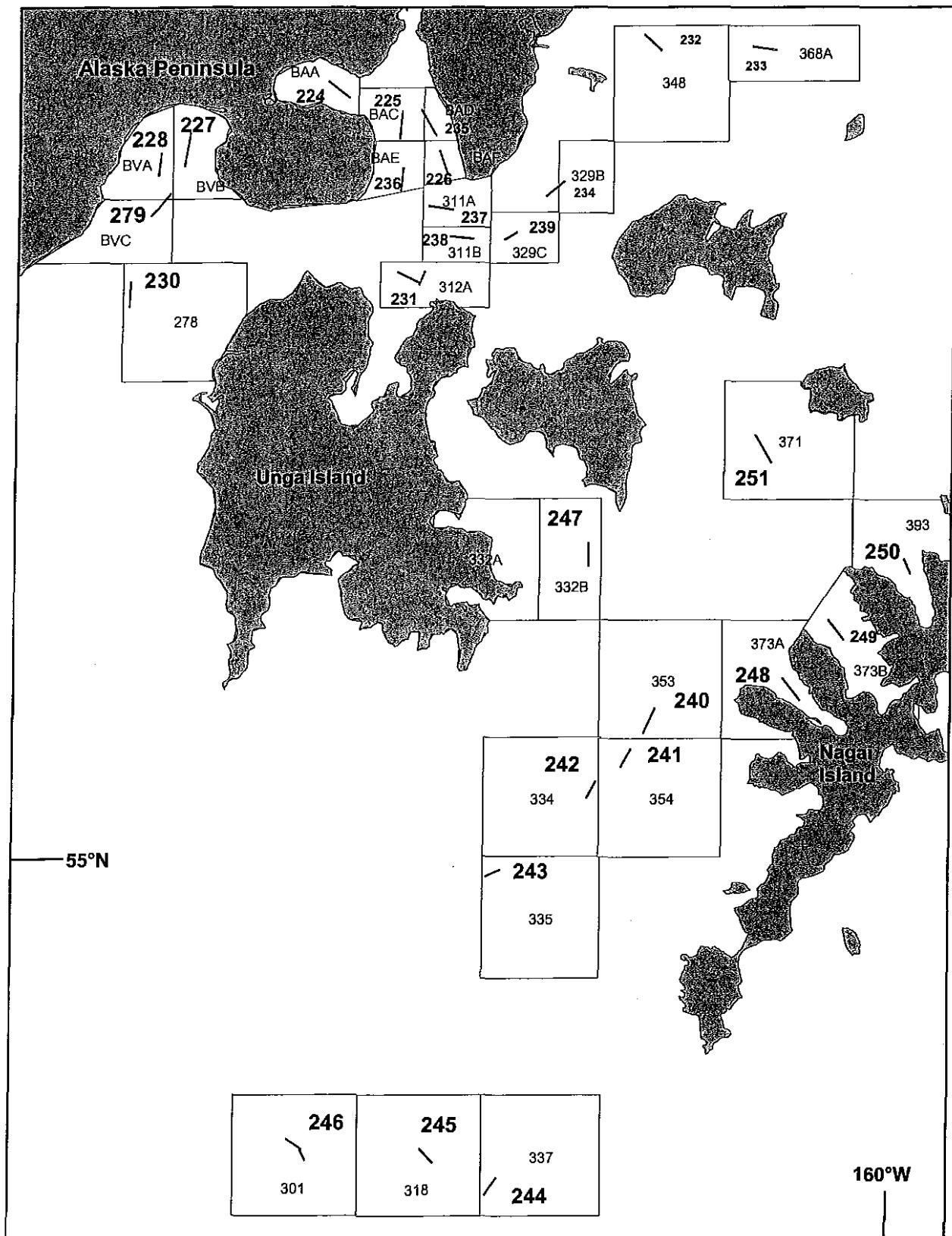
Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Uyak, Uganik, and Viekoda Bays, September 2001.



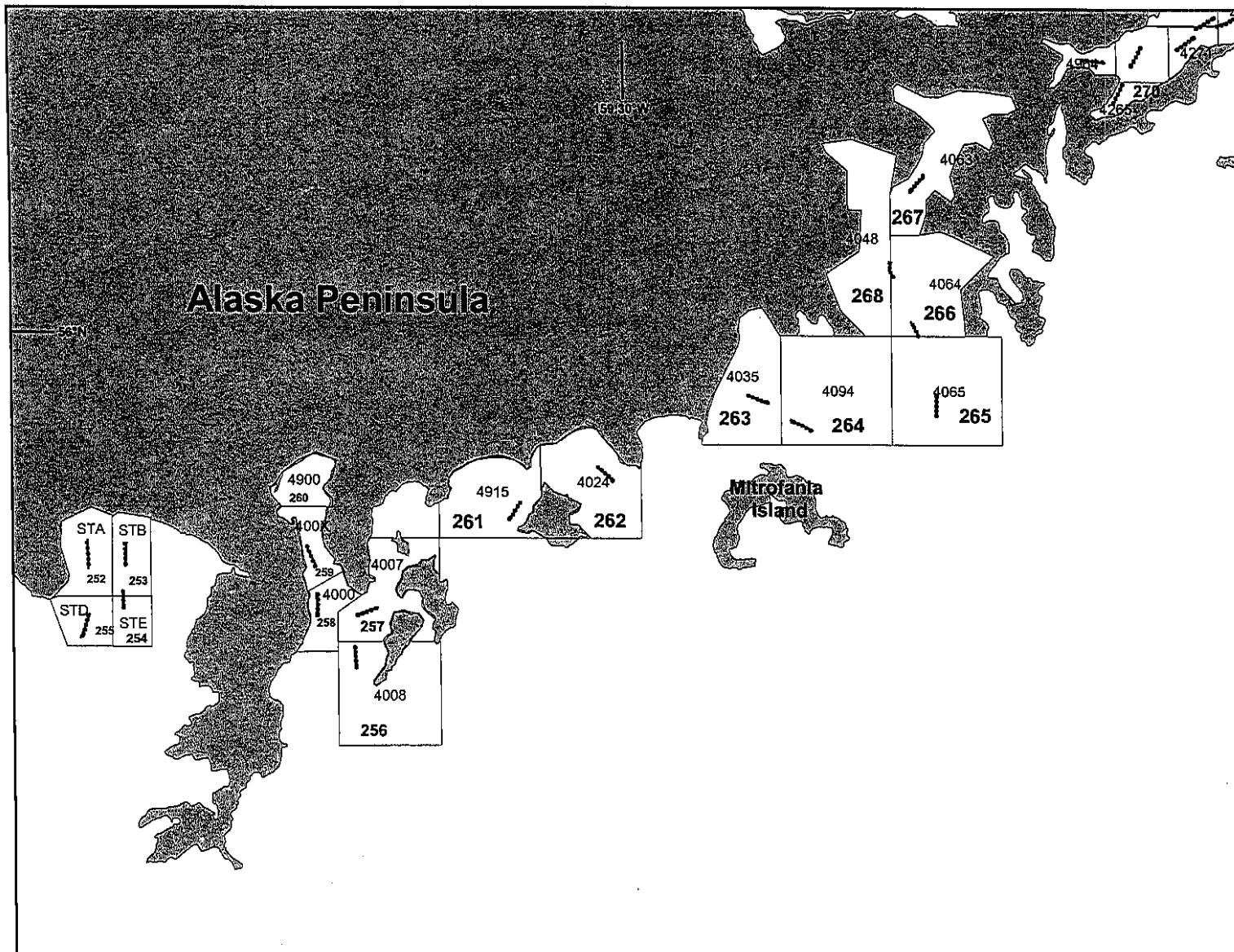
Appendix D.9. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Morzhovoi Bay, Cold Bay, Deer Island, and Sanak Island, August 2001.



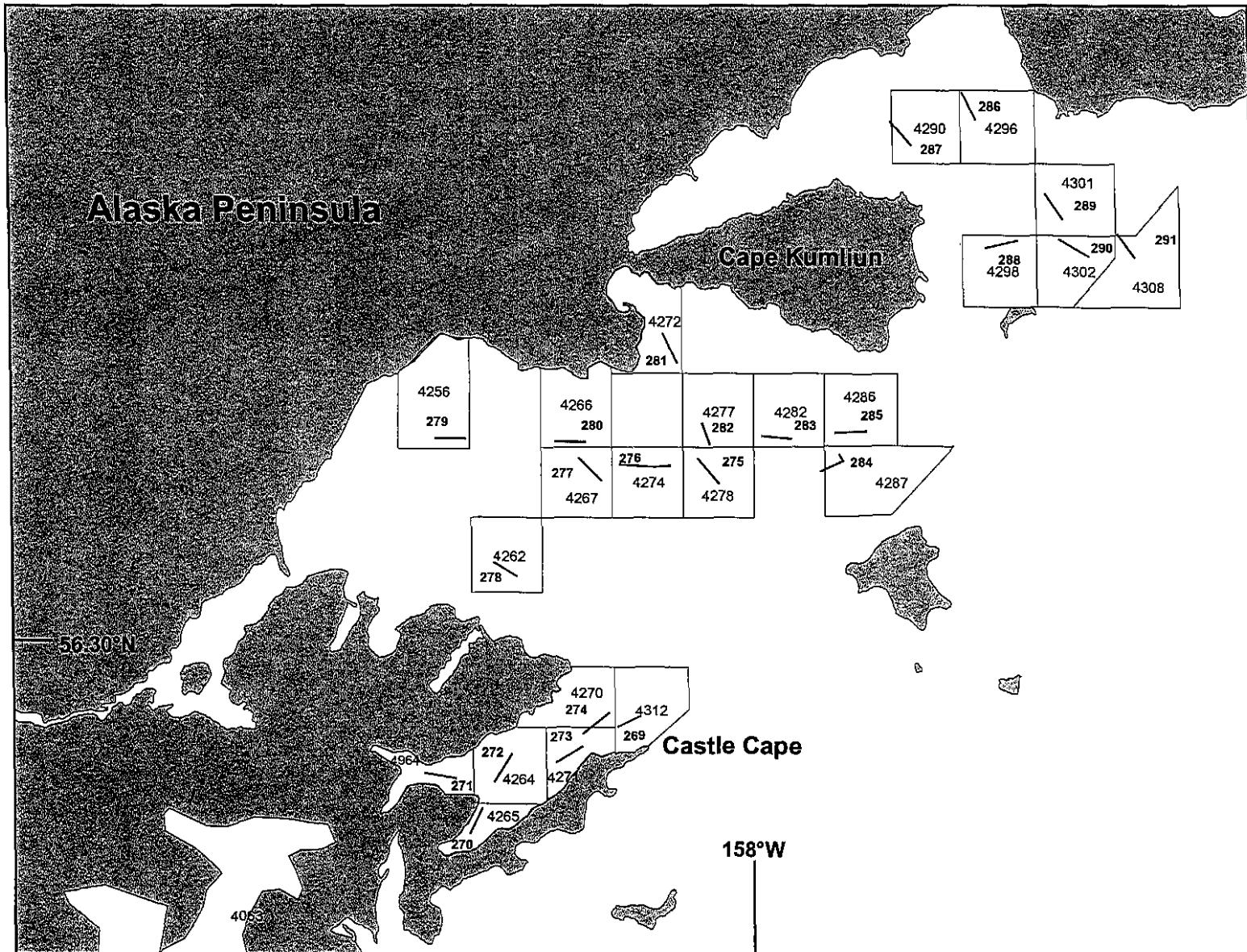
Appendix D.10. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Pavlof and Volcano Bays, August 2001.



Appendix D.11. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Unga Strait, Beaver Bay, Balboa Bay, and West Nagai, August 2001.



Appendix D.12. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Stepovak, Ivanof, Mitrofania, and Kuiukta Bays, August 2001.



Appendix D.13. Station boundaries and names, and trawl haul numbers (bold) and locations (bold lines), Kujulik, Chignik, and Castle Bays, August 2001.

Appendix E. Population estimates of Tanner crab abundance in the Kodiak District by station, section, and total District, 2001.

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
NORTHEAST															
255	18	301,901	11,393	313,294	262,028	28,481	28,481	11,393	0	0	0	0	330,383	643,676	
256	19	56,963	0	56,963	26,583	11,393	0	0	0	0	0	0	37,975	94,938	
257	14	110,128	0	110,128	216,458	0	0	0	0	0	0	0	216,458	326,585	
283	20	364,560	62,659	427,219	336,079	68,355	68,355	34,178	0	0	0	0	506,966	934,185	
284	13	174,685	3,798	178,483	117,723	26,583	11,393	7,595	0	0	0	0	163,293	341,775	
285	12	7,595	0	7,595	15,190	0	0	0	0	0	0	0	15,190	22,785	
313	10	26,583	7,595	34,178	11,393	0	15,190	11,393	0	0	0	0	37,975	72,153	
314	11	0	0	0	0	0	0	0	0	0	0	0	0	0	
395	41	7,595	0	7,595	7,595	0	0	0	0	0	0	0	7,595	15,190	
420	42	865,830	83,545	949,375	1,291,150	881,020	75,950	15,190	0	0	0	0	2,263,310	3,212,685	
421	43	1,686,090	11,393	1,697,483	1,313,935	7,595	0	0	0	0	0	0	1,321,530	3,019,013	
443	45	2,473,800	65,100	2,538,900	2,343,600	16,275	0	0	0	0	0	0	2,359,875	4,898,775	
444	44	1,287,353	11,393	1,298,745	1,207,605	7,595	0	0	0	0	0	0	1,215,200	2,513,945	
CHA	8	23,575	0	23,575	24,304	0	243	0	0	0	0	0	0	24,547	48,122
CHB	7	29,502	11,257	40,760	22,515	43,089	48,912	16,692	1,941	1,941	0	3,882	135,090	175,850	
CHE	5	0	0	0	911	0	0	0	0	0	0	0	911	911	
CHF	9	296,752	15,737	312,489	328,226	44,962	62,947	65,195	17,985	0	0	17,985	519,316	831,804	
CHG	4	55,231	0	55,231	52,162	1,534	0	0	0	0	0	0	53,697	108,927	
CHJ	1	50,903	0	50,903	54,414	17,553	3,511	1,755	0	0	0	0	77,233	128,136	
CHK	2	239,243	243,040	482,283	118,482	102,533	95,697	41,013	9,114	18,228	2,279	29,621	387,345	869,628	
CHL	6	219,756	3,559	223,315	127,227	27,581	19,573	3,559	0	0	0	0	177,940	401,255	
KZA	38	3,873	2,582	6,456	1,937	9,684	5,165	0	0	0	0	0	16,785	23,241	
KZB	39	2,430	1,215	3,646	608	2,835	608	203	0	0	0	0	4,253	7,899	
KZC	37	24,217	781	24,998	31,248	1,562	1,562	1,562	0	0	0	0	35,935	60,934	
KZD	40	1,886,598	377,320	2,263,918	1,090,034	1,488,316	628,866	83,849	20,962	0	0	20,962	3,312,027	5,575,945	
KZE	36	201,376	6,944	208,320	236,096	48,608	17,360	0	0	0	0	0	302,064	510,384	
KZF	35	28,355	24,304	52,659	48,608	123,545	208,609	34,431	4,051	0	0	4,051	419,244	471,903	
KZG	34	282,534	47,089	329,623	310,787	463,356	135,616	16,952	0	0	0	0	926,711	1,256,334	
KZJ	33	80,697	28,481	109,178	83,545	68,355	100,634	28,481	5,696	0	0	5,696	286,711	395,889	
KZK	32	87,343	28,481	115,824	138,609	110,128	47,469	20,886	5,696	0	0	5,696	322,788	438,611	
KZO	31	114,874	78,798	193,673	111,077	95,887	58,861	21,836	3,798	0	0	3,798	291,458	485,131	
KZR	30	61,628	55,552	117,180	71,176	69,440	29,512	22,568	15,624	3,472	0	19,096	211,792	328,972	
KZS	29	35,886	16,063	51,950	14,355	21,874	6,152	5,468	5,127	1,025	684	6,835	54,684	106,634	
MOQ	16	60,760	50,317	111,077	72,153	89,241	37,975	13,291	0	0	0	0	212,660	323,737	
MOT	25	255,496	7,048	262,544	348,884	39,646	7,929	0	0	0	0	0	396,459	659,003	
MOX	22	1,006,672	0	1,006,672	1,384,173	12,699	12,699	0	0	0	0	0	1,409,571	2,416,243	
255X	17	303,041	446,586	749,627	473,169	132,913	63,798	26,583	0	5,317	0	5,317	701,778	1,451,405	
283X	21	252,913	899,248	1,152,161	140,507	207,951	320,357	5,620	112,406	0	118,026	994,793	2,146,955		
369X	3	167,090	33,418	200,508	267,344	33,418	6,684	0	0	0	0	0	307,446	507,954	
MOEX	27	698,436	121,216	819,652	733,069	155,849	132,761	0	0	0	0	0	1,021,679	1,841,332	

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Appendix E. (Page 2 of 6)

Station	Tow	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total	Total	Total
		#	Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165	Legal	Males	Crabs	
MOGX	26	631,114	144,351	775,465	751,966	295,415	208,133	154,422	13,428	6,714	0	20,142	1,430,078	2,205,542	
MOLX	15	503,498	3,387,168	3,890,665	57,216	274,635	846,792	652,259	0	22,886	0	22,886	1,853,788	5,744,453	
MONX	28	75,950	789,880	865,830	15,190	182,280	273,420	341,775	60,760	106,330	0	167,090	979,755	1,845,585	
MOPX	24	215,698	115,039	330,737	215,698	234,871	57,519	14,380	0	0	0	0	522,469	853,205	
MOXX	23	734,892	28,679	763,571	767,156	200,751	107,545	21,509	0	0	0	0	1,096,961	1,860,532	
Population Estimate		15,993,416	7,221,029	23,214,445	15,242,185	5,647,808	3,633,872	1,988,775	169,802	278,319	2,963	451,084	26,963,724	50,178,169	
EASTSIDE															
559	70	261,606	63,292	324,897	291,142	109,706	16,878	50,633	0	37,975	0	37,975	506,333	831,231	
560	64	347,200	54,250	401,450	363,475	162,750	21,700	65,100	0	0	0	0	613,025	1,014,475	
561	65	1,052,450	65,100	1,117,550	1,041,600	173,600	43,400	54,250	0	54,250	0	54,250	1,367,100	2,484,650	
587	89	493,675	42,722	536,397	313,294	18,988	9,494	18,988	0	23,734	0	23,734	384,497	920,894	
588	84	672,700	75,950	748,650	721,525	21,700	10,850	16,275	0	16,275	0	16,275	786,625	1,535,275	
589	66	1,377,950	184,450	1,562,400	1,019,900	108,500	0	43,400	0	0	0	0	1,171,800	2,734,200	
619	90	277,218	132,913	410,130	284,813	136,710	45,570	91,140	0	18,988	0	18,988	577,220	987,350	
620	85	33,228	90,191	123,419	37,975	71,203	71,203	28,481	0	23,734	4,747	28,481	237,344	360,763	
621	67	1,632,925	645,575	2,278,500	462,029	75,950	44,304	69,621	0	170,887	6,329	177,217	829,121	3,107,621	
654	88	12,658	0	12,658	31,646	0	0	6,329	0	0	0	0	37,975	50,633	
655	86	1,306,340	37,975	1,344,315	1,108,870	235,445	113,925	60,760	0	60,760	15,190	75,950	1,594,950	2,939,265	
656	68	594,942	37,975	632,917	386,079	82,279	31,646	44,304	0	31,646	0	31,646	575,954	1,208,871	
695	87	1,280,300	10,850	1,291,150	710,675	32,550	32,550	65,100	0	5,425	0	5,425	846,300	2,137,450	
696	69	716,100	16,275	732,375	412,300	16,275	10,850	27,125	0	32,550	0	32,550	499,100	1,231,475	
KLA	94	89,879	927	90,806	188,098	6,486	0	0	0	0	0	0	0	194,584	285,390
KLB	95	92,051	6,380	98,431	70,178	29,165	4,557	3,646	0	911	0	911	108,457	206,888	
KLC	96	155,849	5,195	161,044	150,654	21,646	1,732	2,597	0	1,732	0	1,732	178,361	339,405	
KLD	74	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLE	98	948,950	98,431	1,047,381	797,293	806,771	157,490	14,947	0	14,947	0	14,947	1,791,448	2,838,829	
KLF	97	70,178	30,745	100,922	33,418	37,428	101,591	25,398	0	12,030	0	12,030	209,865	310,787	
KLG	76	268,964	100,457	369,421	65,621	162,837	264,914	75,342	0	65,621	0	65,621	634,334	1,003,755	
KLH	75	69,779	427,978	497,757	26,051	31,633	40,937	70,709	5,582	104,203	3,722	113,507	282,838	780,595	
KLI	77	231,015	3,165	234,179	240,508	3,165	3,165	3,165	0	3,165	0	3,165	253,167	487,346	
KLL	73	53,798	0	53,798	28,481	0	0	0	0	0	0	0	28,481	82,279	
UGB	81	1,522,782	0	1,522,782	2,778,555	138,928	69,464	23,241	0	0	0	0	3,010,187	4,532,970	
UGC	82	1,254,998	15,494	1,270,492	1,096,961	161,136	43,383	18,593	0	0	0	0	1,320,072	2,590,563	
UGD	83	6,435,699	33,053	6,468,753	5,196,195	100,132	33,053	0	16,527	0	0	16,527	5,345,908	11,814,661	
UGE	55	5,446,071	664,444	6,110,515	3,535,169	400,290	221,690	119,275	0	16,861	0	16,861	4,293,285	10,403,800	
UGF	46	82,451	699	83,150	74,066	0	0	0	0	699	0	699	74,765	157,915	
UGG	47	2,916	486	3,403	972	0	0	0	0	0	0	0	972	4,375	
UGI	48	0	0	0	494	0	0	494	0	0	0	0	987	987	
UGI	54	194,014	74,051	268,066	170,812	0	1,975	3,949	0	987	0	987	177,723	445,789	
UGM	56	120,578	19,352	139,930	116,112	0	0	4,466	0	744	0	744	121,323	261,253	

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Appendix E. (Page 3 of 6)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
486A	53	237,401	7,419	244,820	192,889	2,473	0	2,473	0	2,473	0	0	2,473	200,308	445,128
486B	49	2,601	0	2,601	0	0	0	0	0	0	0	0	0	0	2,601
510B	52	39,044	47,411	86,455	11,156	22,311	11,156	94,822	0	323,511	22,311	345,822	485,266	571,721	
510C	57	3,606	1,803	5,409	5,409	0	0	0	0	0	0	0	0	5,409	10,818
511A	50	0	0	0	0	1,899	3,798	37,975	0	64,558	0	64,558	108,229	108,229	
511B	51	0	0	0	11,393	0	0	0	0	0	0	0	0	11,393	11,393
533A	71	119,621	28,481	148,103	201,268	20,886	1,899	3,798	0	0	0	0	0	227,850	375,953
533B	72	8,439	0	8,439	2,110	0	0	0	0	0	0	0	0	2,110	10,549
534B	58	1,899	0	1,899	0	0	0	949	0	1,899	0	1,899	2,848	4,747	
534D	63	102,044	0	102,044	93,093	5,371	1,790	3,581	0	0	0	0	0	103,835	205,879
535A	59	51,266	949	52,216	35,127	2,848	1,899	7,595	0	14,241	949	15,190	62,659	114,874	
535B	60	6,646	949	7,595	5,696	0	2,848	949	0	0	0	0	0	9,494	17,089
535C	62	185,128	4,747	189,875	159,495	4,747	1,899	9,494	0	4,747	1,899	6,646	182,280	372,155	
535D	61	218,356	5,696	224,053	127,216	1,899	3,798	7,595	0	1,899	0	1,899	142,406	366,459	
UGAA	80	34,050	2,128	36,178	17,025	32,631	28,375	14,187	46,109	709	29,794	76,612	168,831	205,009	
UGAB	79	11,892	297	12,189	9,216	2,378	3,270	2,378	1,784	595	1,784	4,162	21,405	33,594	
UGAC	78	471	0	471	471	0	235	942	2,119	471	471	3,061	4,709	5,180	
Population Estimate		28,121,728	3,038,255	31,159,983	22,626,525	3,242,716	1,457,288	1,194,066	72,121	1,113,227	87,196	1,272,544	29,793,139	60,953,122	
SOUTHEAST															
586	92	102,533	7,595	110,128	132,913	11,393	0	0	0	3,798	0	3,798	148,103	258,230	
614	119	136,345	116,462	252,807	144,867	82,375	34,086	34,086	5,681	79,535	5,681	90,897	386,312	639,119	
615	120	317,167	0	317,167	162,989	22,026	17,620	66,077	4,405	17,620	0	22,026	290,737	607,904	
651	121	767,095	189,875	956,970	721,525	189,875	37,975	45,570	0	30,380	0	30,380	1,025,325	1,982,295	
688	110	379,750	11,393	391,143	303,800	30,380	7,595	0	0	0	0	0	0	341,775	732,918
725	122	15,190	0	15,190	15,190	0	0	0	0	0	0	0	0	15,190	30,380
726	111	167,090	68,355	235,445	140,508	49,368	0	0	0	0	0	0	0	189,875	425,320
727	112	584,815	15,190	600,005	645,575	106,330	0	0	0	0	0	0	0	751,905	1,351,910
728	116	1,285,725	960,225	2,245,950	1,258,600	368,900	65,100	21,700	0	0	0	0	0	1,714,300	3,960,250
729	117	130,200	770,350	900,550	954,800	607,600	43,400	43,400	0	21,700	0	21,700	1,670,900	2,571,450	
759	113	278,483	4,219	282,703	413,506	21,097	0	0	0	0	0	0	0	434,603	717,306
760	114	1,126,592	63,292	1,189,883	1,189,883	164,558	0	12,658	0	12,658	0	12,658	1,379,758	2,569,642	
761	115	2,495,500	564,200	3,059,700	2,050,650	179,025	16,275	0	0	0	0	0	0	2,245,950	5,305,650
858	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0
891	124	11,393	0	11,393	41,773	0	0	0	0	0	0	0	0	41,773	53,165
892	123	37,975	0	37,975	22,785	0	0	0	0	0	0	0	0	22,785	60,760
920	126	80,169	29,536	109,706	122,364	16,878	4,219	0	0	8,439	4,219	12,658	156,119	265,825	
THA	118	20,051	0	20,051	15,277	0	0	0	0	0	0	0	0	15,277	35,328
THC	109	35,499	12,987	48,486	37,231	8,658	12,122	6,927	0	4,329	866	5,195	70,132	118,619	
THD	108	126,533	7,592	134,125	105,022	5,061	0	3,796	0	7,592	0	7,592	121,471	255,596	
THF	106	250,129	17,553	267,682	186,499	118,482	6,582	6,582	2,194	0	2,194	4,388	322,534	590,216	
THG	107	168,989	0	168,989	149,052	0	0	0	0	949	0	949	150,001	318,990	

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Appendix E. (Page 4 of 6)

Station	Tow	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		#	Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165				
THH	102	44,962	0	44,962	35,241	0	0	0	0	0	0	0	0	35,241	80,203
THI	105	231,799	4,253	236,053	125,469	113,773	2,127	1,063	0	0	0	0	0	242,432	478,485
THJ	103	63,190	71,089	134,280	39,494	29,620	23,696	9,873	6,911	22,709	987	30,608	133,292	267,572	
THK	104	151,292	0	151,292	123,950	76,558	41,924	47,393	29,165	0	0	29,165	318,990	470,282	
THL	101	64,449	4,101	68,550	77,925	15,233	5,859	2,344	0	586	0	586	101,947	170,497	
THM	100	95,748	7,848	103,596	80,836	16,481	4,709	10,203	0	4,709	0	4,709	116,938	220,533	
THN	99	32,550	17,577	50,127	12,369	24,087	14,322	9,765	0	9,114	0	9,114	69,657	119,784	
585X	93	192,154	0	192,154	192,154	0	8,355	0	0	0	0	0	200,508	392,662	
618A	91	94,938	7,595	102,533	79,748	1,899	1,899	1,899	0	1,899	0	1,899	87,343	189,875	
Population Estimate		9,488,305	2,951,287	12,439,592	9,581,995	2,259,657	347,865	323,336	48,356	226,017	13,947	288,320	12,801,173	25,240,765	
SOUTHWEST															
750	130	113,925	0	113,925	123,419	0	0	0	0	0	0	0	123,419	237,344	
ALA	142	2,962	0	2,962	1,595	228	0	0	0	0	0	0	0	1,823	4,785
ALB	136	8,655	0	8,655	787	787	0	0	0	0	0	0	0	1,574	10,229
ALC	135	52,972	8,229	61,201	31,886	2,057	0	9,257	30,857	1,543	514	32,915	76,115	137,315	
ALD	134	156,427	0	156,427	118,330	120,062	6,927	6,349	3,463	0	0	3,463	255,131	411,558	
ALF	141	2,842,191	46,282	2,888,473	1,215,200	675,243	27,295	9,494	9,494	0	0	9,494	1,936,725	4,825,198	
ALG	140	523,578	16,362	539,939	437,993	119,567	11,327	1,259	0	7,552	0	7,552	577,697	1,117,637	
ALH	137	1,412,154	102,806	1,514,959	836,012	923,111	23,560	7,853	0	0	0	0	1,790,536	3,305,496	
ALI	138	147,343	30,521	177,864	115,243	129,451	38,414	33,152	22,101	28,416	0	50,518	366,779	544,643	
ALI	155	106,087	0	106,087	82,512	200,386	11,051	8,841	1,473	0	0	1,473	304,263	410,350	
ALK	161	57,266	0	57,266	39,646	39,646	3,524	1,762	0	0	0	0	84,578	141,844	
ALL	139	34,269	5,833	40,102	22,603	67,079	45,935	32,810	8,749	2,916	1,458	13,124	181,551	221,652	
ALM	160	118,308	0	118,308	47,935	74,453	12,239	3,060	1,020	0	0	1,020	138,706	257,015	
ALO	159	133,976	0	133,976	139,558	46,519	13,025	9,304	1,861	0	0	1,861	210,268	344,243	
ALP	158	31,899	0	31,899	23,393	19,139	8,506	2,127	0	0	0	0	53,165	85,064	
ALQ	157	6,380	0	6,380	12,760	12,760	3,190	0	3,190	0	0	3,190	31,899	38,279	
ALR	156	29,621	5,924	35,545	20,142	14,810	8,294	13,033	7,701	1,777	0	9,479	65,758	101,302	
645B	151	100,254	0	100,254	72,912	0	0	3,038	0	0	0	0	75,950	176,204	
646A	150	106,287	0	106,287	133,715	0	1,714	1,714	0	0	0	0	137,144	243,431	
646B	149	1,563,963	32,081	1,596,044	1,478,655	767,763	24,061	24,061	0	0	0	0	2,294,541	3,890,585	
646C	152	114,359	0	114,359	138,338	0	0	0	3,689	0	0	3,689	142,027	256,386	
646D	148	152,325	0	152,325	165,571	3,311	0	0	0	0	0	0	168,882	321,208	
676X	131	379,750	0	379,750	271,250	0	0	0	0	0	0	0	271,250	651,000	
677X	132	455,700	10,850	466,550	564,200	0	0	0	0	0	0	0	564,200	1,030,750	
678X	133	60,760	15,190	75,950	136,710	15,190	0	0	0	0	0	0	151,900	227,850	
682B	153	71,241	0	71,241	53,940	1,018	0	0	0	2,035	0	2,035	56,993	128,234	
683A	154	22,390	1,018	23,408	28,496	0	0	0	0	1,018	0	1,018	29,514	52,922	
683B	145	48,389	1,030	49,418	50,448	0	0	0	0	1,030	0	1,030	51,477	100,895	
683D	146	36,912	0	36,912	29,529	0	0	0	0	0	0	0	29,529	66,441	

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Appendix E. (Page 5 of 6)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>165			
684A	144	29,514	0	29,514	32,567	0	0	0	0	0	0	0	32,567	62,082
684B	143	24,087	0	24,087	24,738	0	0	0	0	0	0	0	24,738	48,825
684C	147	2,532	0	2,532	0	0	0	0	0	0	0	0	0	2,532
748X	129	379,750	9,494	389,244	303,800	0	9,494	9,494	0	0	0	0	322,788	712,031
815X	128	0	0	0	0	0	0	0	0	0	0	0	0	0
881X	127	0	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		9,326,226	285,620	9,611,846	6,753,883	3,232,580	248,556	176,608	93,598	46,287	1,972	141,857	10,553,484	20,165,330
WESTSIDE														
KUD	302	0	0	0	0	0	0	0	0	0	0	0	0	0
KUF	303	28,986	14,993	43,978	30,985	2,999	4,998	0	0	0	0	0	38,981	82,959
KUG	335	0	0	0	0	0	0	0	0	0	0	0	0	0
KUI	336	71,581	57,379	128,960	33,234	15,907	852	284	0	284	0	284	50,561	179,522
KUJ	352	18,046	227,075	245,121	12,030	31,580	69,175	126,320	7,519	30,076	3,008	40,603	279,709	524,830
KUK	351	109,611	4,360	113,971	94,664	21,175	5,605	1,868	0	0	0	0	123,312	237,283
KUL	349	12,720	21,360	34,080	8,880	4,080	2,160	840	120	5,400	600	6,120	22,080	56,160
KUM	304	3,320	0	3,320	11,288	0	0	0	0	0	0	0	11,288	14,608
KUP	340	28,879	20,039	48,918	19,449	33,005	19,449	12,377	1,179	589	0	1,768	86,048	134,966
KUQ	341	10,025	73,823	83,849	911	7,291	12,760	22,785	2,734	5,468	911	9,114	52,861	136,710
KUS	342	4,481	120,092	124,573	0	35,848	30,471	20,613	2,689	896	0	3,585	90,517	215,090
KUT	343	25,805	3,330	29,134	34,545	16,648	15,400	10,405	416	416	0	832	77,831	106,965
KUU	347	35,065	110,030	145,095	4,232	23,578	39,901	37,483	6,046	12,696	1,814	20,555	125,749	270,844
KUV	346	14,582	304	14,886	11,848	608	0	608	0	0	0	0	13,063	27,950
KUW	345	255	765	1,019	255	765	1,019	765	1,019	0	0	1,019	3,823	4,842
KUX	348	3,816	6,829	10,645	3,615	9,239	17,273	49,006	5,222	2,008	402	7,632	86,765	97,410
KUY	338	5,061	4,519	9,580	4,158	1,988	3,615	362	0	181	0	181	10,303	19,884
MAA	333	5,130	466	5,596	1,399	1,865	933	0	0	0	0	0	4,197	9,793
PAA	332	46,785	29,599	76,384	11,458	29,599	13,367	955	0	1,910	0	1,910	57,288	133,672
RAA	334	893	0	893	1,191	0	0	0	0	0	0	0	1,191	2,084
UYO	297	1,935	6,252	8,187	3,722	1,191	2,084	595	0	298	0	298	7,890	16,077
UYT	293	0	0	0	630	0	0	0	0	0	0	0	630	630
KULX	350	36,600	13,436	50,036	23,628	24,555	20,848	8,339	1,853	927	0	2,780	80,150	130,186
KUNX	339	26,823	16,487	43,310	18,702	13,288	8,367	6,644	0	0	0	0	47,001	90,311
KUXX	344	17,225	5,414	22,639	5,906	27,561	17,718	47,247	14,765	2,953	1,969	19,686	118,117	140,757
KUYX	337	0	0	0	0	0	0	0	0	0	0	0	0	0
UYBX	292	60,857	0	60,857	71,317	951	0	0	0	0	0	0	72,268	133,125
UYEX	299	281,809	0	281,809	220,949	0	0	0	0	0	0	0	220,949	502,759
UYFX	301	606,960	58,603	665,563	502,312	306,968	66,975	16,744	0	0	0	0	892,998	1,558,561
UYHX	300	35,362	182	35,545	36,456	5,468	182	0	0	0	0	0	42,107	77,651

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Appendix E. (Page 6 of 6)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
UYKX	298	81,531	877	82,408	85,038	1,753	0	0	0	0	0	0	0	86,791	169,199
UYMX	296	151,213	11,986	163,200	124,474	22,129	16,597	2,766	0	922	0	922	166,888	330,088	
UYQX	295	32,324	0	32,324	24,669	6,380	851	0	0	0	0	0	0	31,899	64,223
UYSS	294	11,848	28,774	40,622	0	14,387	27,082	75,321	40,622	20,311	2,539	63,473	180,262	220,884	
Population Estimate		1,769,528	836,974	2,606,502	1,401,945	660,806	397,682	442,327	84,184	85,335	11,243	180,762	3,083,522	5,690,024	
NORTH MAINLAND															
2	331	170,887	6,329	177,217	170,887	0	0	0	0	0	0	0	170,887	348,104	
31	330	107,484	7,413	114,897	100,072	0	0	0	0	0	0	0	100,072	214,969	
60	328	34,178	0	34,178	37,975	0	0	0	0	0	0	0	37,975	72,153	
61	329	189,875	0	189,875	157,325	5,425	0	0	0	0	0	0	162,750	352,625	
90	326	398,100	0	398,100	462,080	3,554	0	0	0	0	0	0	465,634	863,734	
91	327	140,508	0	140,508	250,635	0	0	0	0	0	0	0	250,635	391,143	
117	325	43,291	0	43,291	34,633	0	0	0	0	0	0	0	34,633	77,925	
118	320	417,725	0	417,725	620,258	6,329	0	0	0	6,329	0	6,329	632,917	1,050,642	
119	321	186,078	11,393	197,470	201,268	26,583	7,595	49,368	0	0	0	0	284,813	482,283	
120	322	254,433	3,798	258,230	353,168	0	7,595	11,393	0	7,595	0	7,595	379,750	637,980	
121	323	531,650	15,190	546,840	383,548	0	15,190	18,988	0	0	0	0	417,725	964,565	
144	324	38,409	0	38,409	57,614	0	0	0	0	0	0	0	57,614	96,023	
145	316	94,938	3,798	98,735	201,268	0	0	0	0	3,798	0	3,798	205,065	303,800	
146	315	208,863	83,545	292,408	258,230	3,798	18,988	11,393	0	15,190	0	15,190	307,598	600,005	
147	314	106,330	258,230	364,560	64,558	0	3,798	15,190	3,798	15,190	0	18,988	102,533	467,093	
171	317	9,394	0	9,394	10,117	0	0	0	0	723	0	723	10,839	20,233	
172	310	3,949	0	3,949	7,899	0	0	0	0	0	0	0	7,899	11,848	
173	311	220,255	7,595	227,850	208,863	26,583	22,785	45,570	0	18,988	0	18,988	322,788	550,638	
174	313	702,538	3,798	706,335	732,918	18,988	15,190	7,595	0	3,798	0	3,798	778,488	1,484,823	
198	307	269,623	102,533	372,155	235,445	34,178	7,595	34,178	0	0	0	0	311,395	683,550	
199	306	125,318	0	125,318	94,938	91,140	148,103	91,140	3,798	34,178	0	37,975	463,295	588,613	
200	312	265,825	3,798	269,623	281,015	98,735	68,355	60,760	3,798	0	0	3,798	512,663	782,285	
222	309	21,483	0	21,483	7,161	0	0	0	0	0	0	0	7,161	28,644	
223	308	630,385	26,583	656,968	698,740	26,583	18,988	22,785	0	0	0	0	767,095	1,424,063	
224	305	391,143	26,583	417,725	318,990	151,900	113,925	18,988	0	0	0	0	603,803	1,021,528	
171X	318	717	21,151	21,868	717	0	1,434	10,755	10,038	66,678	5,736	82,451	95,357	117,224	
171Y	319	8,587	0	8,587	8,587	0	0	0	0	2,147	0	2,147	10,734	19,322	
Population Estimate		5,571,966	581,737	6,153,703	5,958,909	493,796	449,541	398,103	21,432	174,614	5,736	201,782	7,502,131	13,655,834	
Total		70,271,169	14,914,902	85,186,071	61,565,442	15,537,363	6,534,804	4,523,215	489,493	1,923,799	123,057	2,536,349	90,697,173	175,883,244	

Appendix F. Population estimates of red king crab abundance in the Kodiak Area by station, section, and total Area, 2001.

Station	Tow #	Females			Sublegal Males				Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two	One					
NORTHEAST													
255	18	0	0	0	0	0	0	0	0	0	0	0	0
256	19	0	0	0	0	0	0	0	0	0	0	0	0
257	14	0	0	0	0	0	0	0	0	0	0	0	0
283	20	0	0	0	0	0	0	0	0	0	0	0	0
284	13	0	0	0	0	0	0	0	0	0	0	0	0
285	12	0	0	0	0	0	0	0	0	0	0	0	0
313	10	0	0	0	0	0	0	0	0	0	0	0	0
314	11	0	0	0	0	0	0	0	0	0	0	0	0
395	41	0	0	0	0	0	0	0	0	0	0	0	0
420	42	0	0	0	0	0	0	0	0	0	0	0	0
421	43	0	0	0	0	0	0	0	0	0	0	0	0
443	45	0	0	0	0	0	0	0	0	0	0	0	0
444	44	0	0	0	0	0	0	0	0	0	0	0	0
CHA	8	0	0	0	0	0	0	0	0	0	0	0	0
CHB	7	0	0	0	0	0	0	0	0	388	388	388	388
CHE	5	1823	0	1823	0	0	0	0	0	0	0	0	1823
CHF	9	0	0	0	0	0	0	0	0	0	0	0	0
CHG	4	0	0	0	0	0	0	0	0	0	0	0	0
CHJ	1	0	0	0	0	0	0	0	0	0	0	0	0
CHK	2	0	0	0	0	0	0	0	0	0	0	0	0
CHL	6	0	0	0	0	0	0	0	0	0	0	0	0
KZA	38	0	0	0	0	0	0	0	0	0	0	0	0
KZB	39	0	0	0	0	0	0	0	0	0	0	0	0
KZC	37	0	0	0	0	0	0	0	0	0	0	0	0
KZD	40	0	0	0	0	0	0	0	0	0	0	0	0
KZE	36	0	0	0	0	0	0	0	0	0	0	0	0
KZF	35	0	0	0	0	0	0	0	0	0	0	0	0
KZG	34	0	0	0	0	0	0	0	0	0	0	0	0
KZJ	33	0	0	0	0	0	0	0	0	0	0	0	0
KZK	32	0	0	0	0	0	0	0	0	0	0	0	0
KZO	31	0	0	0	0	0	0	0	0	0	0	0	0
KZR	30	0	0	0	0	0	0	0	0	0	0	0	0
KZS	29	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 2 of 8)

Station	Tow #	Females			Sublegal Males			One	Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two						
MOQ	16	0	0	0	0	0	0	0	0	0	0	0	0
MOT	25	0	0	0	0	0	0	0	0	0	0	0	0
MOX	22	0	0	0	0	0	0	0	0	0	0	0	0
255X	17	0	0	0	0	0	0	0	0	0	0	0	0
283X	21	0	0	0	0	0	0	0	0	0	0	0	0
369X	3	0	0	0	0	0	0	0	0	0	0	0	0
MOEX	27	0	0	0	0	0	0	0	0	0	0	0	0
MOGX	26	0	0	0	0	0	0	0	0	0	0	0	0
MOLX	15	0	0	0	0	0	0	0	0	0	0	0	0
MONX	28	0	0	0	0	0	0	0	0	0	0	0	0
MOPX	24	0	0	0	0	0	0	0	0	0	0	0	0
MOXX	23	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		1823	0	1823	0	0	0	0	0	388	388	388	2211
SOUTHEAST													
559	70	0	0	0	0	0	0	0	0	0	0	0	0
560	64	0	0	0	0	0	0	0	0	0	0	0	0
561	65	0	0	0	0	0	0	0	0	0	0	0	0
587	89	0	0	0	0	0	0	0	0	0	0	0	0
588	84	0	0	0	0	0	0	0	0	0	0	0	0
589	66	0	0	0	0	0	0	0	0	0	0	0	0
619	90	0	0	0	0	0	0	0	0	0	0	0	0
620	85	0	0	0	0	0	0	0	0	0	0	0	0
621	67	0	0	0	0	0	0	0	0	0	0	0	0
654	88	0	0	0	0	0	0	0	0	0	0	0	0
655	86	0	0	0	0	0	0	0	0	0	0	0	0
656	68	0	0	0	0	0	0	0	0	0	0	0	0
695	87	0	0	0	0	0	0	0	0	0	0	0	0
696	69	0	0	0	0	0	0	0	0	0	0	0	0
KLA	94	0	0	0	0	0	0	0	0	0	0	0	0
KLB	95	0	0	0	0	0	0	0	0	0	0	0	0
KLC	96	0	0	0	0	0	0	0	0	0	0	0	0
KLD	74	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 3 of 8)

Station	Tow #	Females			Sublegal Males			Post Recruit	Total Legal	Total Males	Total Crabs	
		Juv.	Adult	Total	Four	Three	Two					
KLE	98	0	0	0	0	0	0	0	0	0	0	0
KLF	97	0	0	0	0	0	0	0	0	0	0	0
KLG	76	0	0	0	0	0	0	0	0	0	0	0
KLH	75	0	0	0	0	0	0	0	0	0	0	0
KLI	77	0	0	0	0	0	0	0	0	0	0	0
KLL	73	0	0	0	0	0	0	0	0	0	0	0
UGB	81	0	0	0	0	0	0	0	0	0	0	0
UGC	82	0	3099	3099	0	0	0	0	0	0	0	3099
UGD	83	0	0	0	0	0	0	0	0	0	0	0
UGE	55	0	0	0	0	0	0	0	0	0	0	0
UGF	46	0	0	0	0	0	0	0	0	0	0	0
UGG	47	0	0	0	0	0	0	0	0	0	0	0
UGI	48	0	0	0	0	0	0	0	0	0	0	0
UGI	54	0	0	0	0	0	0	0	0	0	0	0
UGM	56	0	0	0	0	0	0	0	0	0	0	0
486A	53	0	0	0	0	0	0	0	0	0	0	0
486B	49	0	0	0	0	0	0	0	0	0	0	0
510B	52	0	0	0	0	0	0	0	0	0	0	0
510C	57	0	0	0	0	0	0	0	0	0	0	0
511A	50	0	0	0	0	0	0	0	0	0	0	0
511B	51	0	0	0	0	0	0	0	0	0	0	0
533A	71	0	0	0	0	0	0	0	0	0	0	0
533B	72	0	0	0	0	0	0	0	0	0	0	0
534B	58	0	0	0	0	0	0	0	0	0	0	0
534D	63	0	0	0	0	0	0	0	0	0	0	0
535A	59	0	0	0	0	0	0	0	0	0	0	0
535B	60	0	0	0	0	0	0	0	0	0	0	0
535C	62	0	0	0	0	0	0	0	0	0	0	0
535D	61	0	0	0	0	0	0	0	0	0	0	0
UGAA	80	4966	2128	7094	1419	709	1419	709	2128	2128	4256	8512
UGAB	79	0	0	0	0	0	0	0	0	0	0	0
UGAC	78	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 4 of 8)

Station	Tow #	Females			Sublegal Males			One	Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two						
Population Estimate		4966	5227	10193	1419	709	1419	709	2128	2128	4256	8512	18705
SOUTHEAST													
586	92	0	0	0	0	0	0	0	0	0	0	0	0
614	119	0	0	0	0	0	0	0	0	0	0	0	0
615	120	0	0	0	0	0	0	0	0	0	0	0	0
651	121	0	0	0	0	0	0	0	0	0	0	0	0
688	110	0	0	0	0	0	0	0	0	0	0	0	0
725	122	0	0	0	0	0	0	0	0	0	0	0	0
726	111	0	0	0	0	0	0	0	0	0	0	0	0
727	112	0	0	0	0	0	0	0	0	0	0	0	0
728	116	0	0	0	0	0	0	0	0	0	0	0	0
729	117	0	0	0	0	0	0	0	0	0	0	0	0
759	113	0	0	0	0	0	0	0	0	0	0	0	0
760	114	0	0	0	0	0	0	0	0	0	0	0	0
761	115	0	0	0	0	0	0	0	0	0	0	0	0
858	125	0	0	0	0	0	0	0	0	0	0	0	0
891	124	0	0	0	0	0	0	0	0	0	0	0	0
892	123	0	0	0	0	0	0	0	0	0	0	0	0
920	126	0	0	0	0	0	0	0	0	0	0	0	0
THA	118	0	0	0	0	0	0	0	0	0	0	0	0
THC	109	0	0	0	0	0	0	0	0	0	0	0	0
THD	108	0	0	0	0	0	0	0	0	0	0	0	0
THF	106	0	0	0	0	0	0	0	0	0	0	0	0
THG	107	0	0	0	0	0	0	0	0	0	0	0	0
THH	102	0	1215	1215	0	0	0	0	0	0	0	0	1215
THI	105	0	0	0	0	0	0	0	0	0	0	0	0
THJ	103	0	0	0	0	0	0	0	0	0	0	0	0
THK	104	0	0	0	0	0	0	0	0	0	0	0	0
THL	101	0	0	0	0	0	0	0	0	0	0	0	0
THM	100	0	0	0	0	0	0	0	0	0	0	0	0
THN	99	0	0	0	0	0	0	0	0	0	0	0	0
585X	93	0	0	0	0	0	0	0	0	0	0	0	0
618A	91	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 5 of 8)

Station	Tow #	Females			Sublegal Males			One	Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two						
Population Estimate		0	1215	1215	0	0	0	0	0	0	0	0	0
SOUTHWEST													
750	130	0	0	0	0	0	0	0	0	0	0	0	0
ALA	142	228	0	228	0	0	0	0	0	0	0	0	228
ALB	136	0	0	0	0	0	0	0	0	0	0	0	0
ALC	135	0	2057	2057	0	0	0	0	0	1029	1029	1029	3086
ALD	134	0	0	0	0	0	0	0	0	0	0	0	0
ALF	141	161394	2373	163767	195809	34415	4747	2373	3560	1187	4747	242091	405858
ALG	140	0	3776	3776	0	0	1259	0	1259	5034	6293	7552	11327
ALH	137	0	0	0	0	0	0	0	0	0	0	0	0
ALI	138	0	1052	1052	0	0	526	1052	1052	6315	7367	8946	9998
ALI	155	0	737	737	0	0	0	0	0	1473	1473	1473	2210
ALK	161	881	0	881	881	0	0	0	0	0	0	881	1762
ALL	139	0	0	0	0	0	0	0	0	0	0	0	0
ALM	160	0	2040	2040	0	0	0	0	0	0	0	0	2040
ALO	159	0	0	0	0	0	0	0	0	0	0	0	0
ALP	158	0	0	0	0	0	0	0	0	0	0	0	0
ALQ	157	0	0	0	0	0	0	0	0	0	0	0	0
ALR	156	0	0	0	0	0	0	0	0	0	0	0	0
645B	151	0	0	0	0	0	0	0	0	0	0	0	0
646A	150	0	0	0	0	0	0	0	0	0	0	0	0
646B	149	0	0	0	0	0	0	0	0	0	0	0	0
646C	152	0	0	0	0	0	0	0	0	0	0	0	0
646D	148	1656	0	1656	0	0	0	0	0	0	0	0	1656
676X	131	0	0	0	0	0	0	0	0	0	0	0	0
677X	132	0	0	0	0	0	0	0	0	0	0	0	0
678X	133	0	0	0	0	0	0	0	0	0	0	0	0
682B	153	0	0	0	0	0	0	0	0	0	0	0	0
683A	154	0	0	0	0	0	0	0	0	0	0	0	0
683B	145	0	0	0	0	0	0	0	0	0	0	0	0
683D	146	820	0	820	0	0	0	0	0	0	0	0	820
684A	144	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 6 of 8)

Station	Tow #	Females			Sublegal Males			One	Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two						
684B	143	0	0	0	0	0	0	0	0	0	0	0	0
684C	147	0	0	0	0	0	0	0	0	0	0	0	0
748X	129	0	0	0	0	0	0	0	0	0	0	0	0
815X	128	0	0	0	0	0	0	0	0	0	0	0	0
881X	127	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		164979	12035	177014	196690	34415	6532	3425	5871	15038	20909	261971	438985
SHELIKOF													
KUD	302	2400	0	2400	0	0	0	0	0	0	0	0	2400
KUF	303	0	0	0	0	0	0	0	0	0	0	0	0
KUG	335	0	0	0	0	0	0	0	0	0	0	0	0
KUI	336	0	0	0	0	0	0	0	0	0	0	0	0
KUJ	352	0	0	0	0	0	0	0	0	0	0	0	0
KUK	351	0	0	0	0	0	0	0	0	0	0	0	0
KUL	349	0	0	0	0	0	0	0	0	0	0	0	0
KUM	304	0	0	0	0	0	0	0	0	0	0	0	0
KUP	340	0	0	0	0	0	0	0	0	0	0	0	0
KUQ	341	0	0	0	0	0	0	0	0	0	0	0	0
KUS	342	0	0	0	0	0	0	0	0	0	0	0	0
KUT	343	0	0	0	0	0	0	0	0	0	0	0	0
KUU	347	0	0	0	605	0	0	0	0	0	0	605	605
KUV	346	0	0	0	0	0	0	0	0	0	0	0	0
KUW	345	0	0	0	0	0	0	0	0	0	0	0	0
KUX	348	0	0	0	0	0	0	0	0	0	0	0	0
KUY	338	0	0	0	0	0	0	0	0	0	0	0	0
MAA	333	0	0	0	0	0	0	0	0	0	0	0	0
PAA	332	0	0	0	0	0	0	0	0	0	0	0	0
RAA	334	0	0	0	0	0	0	0	0	0	0	0	0
UYO	297	0	0	0	0	0	0	0	0	0	0	0	0
UYT	293	0	315	315	0	0	0	0	0	0	0	0	315
KULX	350	0	0	0	0	0	0	0	0	0	0	0	0
KUNX	339	0	0	0	0	0	0	0	0	0	0	0	0
KUXX	344	0	0	0	0	0	0	0	0	0	0	0	0

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Station	Tow #	Females			Sublegal Males				Post Recruit	Total Legal	Total Males	Total Crabs	
		Juv.	Adult	Total	Four	Three	Two	One					
KUYX	337	0	0	0	0	0	0	0	0	0	0	0	
UYBX	292	0	0	0	0	0	0	0	0	0	0	0	
UYEX	299	0	0	0	0	0	0	0	0	0	0	0	
UYFX	301	0	0	0	0	0	0	0	0	0	0	0	
UYHX	300	0	0	0	0	0	0	0	0	0	0	0	
UYKX	298	0	0	0	0	0	0	0	0	0	0	0	
UYMX	296	0	0	0	0	0	0	0	0	0	0	0	
UYQX	295	0	0	0	0	0	0	0	0	0	0	0	
UYSS	294	44854	110019	154873	5078	17772	12695	10156	30467	17772	48239	93939	248812
Population Estimate		47254	110334	157588	5683	17772	12695	10156	30467	17772	48239	94545	252133
NORTH MAINLAND													
2	331	0	0	0	0	0	0	0	0	0	0	0	
31	330	0	0	0	0	0	0	0	0	0	0	0	
60	328	0	0	0	0	0	0	0	0	0	0	0	
61	329	0	0	0	0	0	0	0	0	0	0	0	
90	326	0	0	0	0	0	0	0	0	0	0	0	
91	327	0	0	0	0	0	0	0	0	0	0	0	
117	325	0	0	0	0	0	0	0	0	0	0	0	
118	320	0	0	0	0	0	0	0	0	0	0	0	
119	321	0	0	0	0	0	0	0	0	0	0	0	
120	322	0	0	0	0	0	0	0	0	0	0	0	
121	323	0	0	0	0	0	0	0	0	0	0	0	
144	324	0	0	0	0	0	0	0	0	0	0	0	
145	316	0	0	0	0	0	0	0	0	0	0	0	
146	315	0	0	0	0	0	0	0	0	0	0	0	
147	314	0	0	0	0	0	0	0	0	0	0	0	
171	317	0	0	0	0	0	0	0	0	0	0	0	
172	310	0	0	0	0	0	0	0	0	0	0	0	
173	311	0	0	0	0	0	0	0	0	0	0	0	
174	313	0	0	0	0	0	0	0	0	0	0	0	
198	307	0	0	0	0	0	0	0	0	0	0	0	

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Appendix F. (Page 8 of 8)

Station	Tow #	Females			Sublegal Males			One	Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two						
199	306	0	0	0	0	0	0	0	0	0	0	0	0
200	312	0	0	0	0	0	0	0	0	0	0	0	0
222	309	0	0	0	0	0	0	0	0	0	0	0	0
223	308	0	0	0	0	0	0	0	0	0	0	0	0
224	305	0	0	0	0	0	0	0	0	0	0	0	0
171X	318	0	0	0	0	0	0	0	0	0	0	0	0
171Y	319	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		0	0	0	0	0	0	0	0	0	0	0	0
Total		219022	128811	347833	203792	52896	20646	14290	38466	35326	73792	365416	713249

Appendix G.1. *Bathyraja* spp. lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	7	8	10	11	12	13	14	15	16	17	18	19	20			
<20	66	7	8	16	1	1	16	1	0	0	3	5	1	0	0	9	0	3	137		
21	8	0	0	1	0	0	0	0	0	0	1	2	0	0	0	1	0	1	14		
22	9	3	5	3	0	0	0	0	0	0	0	3	0	0	0	0	0	1	24		
23	3	2	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	1	10		
24	6	0	2	2	0	0	0	0	0	0	1	0	0	0	0	1	0	1	13		
25	2	0	2	3	0	2	1	0	0	0	1	2	0	0	0	0	0	0	0	13	
26	4	3	1	5	1	1	0	1	0	0	0	1	0	0	0	0	0	1	18		
27	4	3	0	4	0	1	0	0	0	0	0	0	0	0	0	0	1	4	17		
28	3	2	3	5	0	1	0	0	0	0	0	1	1	0	0	4	0	0	20		
29	2	2	2	8	0	0	2	0	0	0	0	0	0	0	1	0	2	0	3	22	
30	9	2	0	6	2	1	2	0	0	1	1	1	0	0	0	1	0	2	28		
31	19	8	7	7	0	2	2	0	2	0	1	0	0	0	0	3	1	2	54		
32	11	5	5	12	0	4	5	0	1	0	2	1	1	0	0	3	3	3	57		
33	10	2	3	22	0	2	5	0	1	1	0	4	1	1	0	2	3	2	59		
34	17	8	5	20	0	4	5	0	0	2	2	2	0	1	0	4	0	1	71		
35	21	5	5	18	1	1	1	0	0	0	2	1	0	0	1	5	2	0	63		
36	12	3	2	21	0	6	1	0	1	5	1	1	0	0	0	1	2	1	1	58	
37	20	2	2	8	0	2	1	0	0	1	0	1	0	0	0	0	2	1	40		
38	10	0	2	6	0	0	1	0	0	6	0	1	1	0	0	1	1	0	29		
39	10	0	2	6	0	0	1	0	0	0	0	0	0	0	0	3	0	1	23		
40	2	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5		
41	2	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	1	0	9		
42	3	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	7		
43	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4		
44	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
45	2	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	6		
46	2	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	1	0	8		
47	1	2	0	2	2	1	1	0	0	0	1	0	0	0	0	1	0	0	11		
48	1	2	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	7		
49	1	0	0	2	0	1	1	0	0	1	0	0	0	0	0	2	0	0	8		
50	2	0	0	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9		
51	2	0	0	2	1	0	2	0	1	0	0	0	0	0	0	0	0	0	8		
52	2	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	6		
53	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	6		
54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2		
55	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3		
56	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	4		
57	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4		
58	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3		
59	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3		
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1		
62	2	1	0	1	0	1	2	0	0	0	0	0	0	0	0	0	1	0	8		
63	2	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5		
64	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4		
65	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
66	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0		
67	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1		
69	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2		
70	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3		
71	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
72	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2		
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
74	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
77	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3		
83	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1		

1. Shelikof
2. Marmot Offshore
3. Chiniak Offshore
4. Barnabas

5. Twoheaded
7. Geese Islands
8. Sitkinak Island
10. Alitak Bay

11. Chiniak Bay
12. Kiliuda Bay
13. Kupreanof-Viekoda
14. Uganik Bay

15. Inner Marmot
16. Malina-Raspberry
17. Ugak Bay
18. Southwest Offshore

19. Marmot-Izhut Bay
20. Uyak Bay

Appendix G.2. Big skate lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
<50	16	1	1	4	0	1	1	0	1	1	4	0	2	5	0	8	0	1	0	46	
51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
52	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	5	
53	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	
54	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
56	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
59	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	3	
60	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
61	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	6
62	2	0	0	1	0	0	1	0	0	0	1	0	0	0	0	3	0	0	0	0	8
63	0	0	0	1	0	1	0	0	0	0	2	0	0	0	0	2	0	0	0	1	7
64	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	6
65	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	5
66	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	3
67	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	4
68	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	1	6
69	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	5
70	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	4
71	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
72	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1
73	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	6
74	1	0	0	2	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	6
75	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3
76	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	1
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
78	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
79	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
80	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	3
81	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
82	3	0	0	0	0	1	0	0	0	0	1	0	0	0	0	3	0	0	0	0	8
83	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
84	2	0	0	0	0	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	6
85	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4
86	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	5
87	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	2	0	1	0	0	8
88	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	3
90	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
91	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
92	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	0	4
93	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
94	2	0	0	0	0	1	0	0	0	1	1	0	0	0	0	2	0	0	0	0	7
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
96	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
97	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	3
98	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
99	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
100	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
102	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
104	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
105	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
107	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

- 1. Shelikof
- 2. Marmot Offshore
- 3. Chinlak Offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Altak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chinlak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 19. Marmot-Izhut Bay
- 20. Uyak Bay

Appendix G.3. Longnose skate *Raja rhina* lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																					Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	Total		
≤25	11	8	0	25	2	1	7	0	0	8	0	6	11	4	0	4	3	0	25	113		
26	1	0	0	3	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	8		
27	3	0	0	2	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	9		
28	0	1	0	6	0	0	0	0	0	1	0	0	3	0	0	0	2	0	2	15		
29	1	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	8		
30	1	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	1	0	3	9		
31	0	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3	9		
32	0	2	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	7		
33	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3		
34	2	1	0	2	0	0	2	0	0	0	0	0	2	1	0	0	1	0	0	11		
35	1	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	7		
36	3	1	0	1	0	0	1	2	0	0	0	1	0	0	0	0	0	0	1	10		
37	2	2	0	2	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	11		
38	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	3		
39	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3		
40	2	0	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	6		
41	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	8		
43	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	5		
44	0	2	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	7		
45	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	1	0	1	0	6		
46	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	2	0	1	6		
47	1	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	6	
48	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	
49	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
50	0	2	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	7		
51	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	2	0	6		
52	3	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	7		
53	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4		
54	2	0	0	3	0	0	1	0	0	0	0	1	0	2	0	0	0	1	0	10		
55	2	2	1	1	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	10		
56	1	1	0	2	0	0	3	0	0	0	2	0	0	2	0	0	0	0	1	12		
57	2	1	1	2	0	0	0	1	0	1	2	0	0	2	0	1	0	0	0	13		
58	2	0	2	0	0	0	0	0	0	0	0	1	0	1	0	1	0	2	1	10		
59	3	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	3	11		
60	1	1	0	1	0	0	1	0	0	0	1	0	1	1	0	0	0	2	3	12		
61	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	5		
62	2	1	1	5	0	1	1	0	0	0	0	1	0	1	0	0	2	0	5	20		
63	5	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	9			
64	2	3	1	2	0	0	1	0	0	0	0	0	0	1	0	0	0	1	2	13		
65	3	2	0	5	1	0	1	0	0	0	2	0	0	0	0	1	0	0	3	18		
66	2	2	1	2	0	0	1	1	0	1	0	3	1	0	0	0	0	2	1	17		
67	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	6		
68	3	0	1	4	2	1	0	0	1	1	1	1	1	1	0	0	0	0	0	17		
69	5	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	11		
70	4	1	1	2	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	13		
71	1	0	0	2	0	0	0	0	0	0	2	0	0	1	0	1	0	0	1	8		
72	2	0	0	1	4	0	1	0	0	0	0	0	1	0	0	0	2	1	3	15		
73	2	1	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	2	1	9		
74	2	2	0	2	1	0	0	0	0	1	0	0	0	0	1	1	1	0	1	12		
75	2	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	7		
76	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1		
77	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
78	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
79	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2		
83	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
>86	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	4		

1. Shelikof
2. Marmot Offshore
3. Chiniak Offshore
4. Bamabas

5. Twoheaded
6. Alitak Flats
7. Geese Islands
8. Sitkinak Island

9. Alitak Bay
10. Chiniak Bay
11. Killuda Bay
12. Kupreanof-Viekoda

13. Ugak Bay
14. Inner Marmot
15. Malina-Raspberry

16. Southwest Offshore
17. Marmot-Iznut Bay
18. Uyak Bay
19. Marmot-Iznut Bay
20. Uyak Bay

Appendix G.4. Spiny dogfish lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																Total
	1	2	3	4	5	6	7	8	12	15	16	17	19	20	Total		
53	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	
60	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
61	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
62	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
63	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
64	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	
65	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
66	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	4	
67	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
68	0	4	0	1	0	0	0	0	0	0	0	1	0	0	0	6	
69	1	5	1	1	1	0	0	0	0	0	0	0	0	0	0	9	
70	5	5	0	1	1	0	0	0	0	0	0	1	1	0	0	14	
71	1	4	1	1	1	0	0	0	0	0	0	0	1	0	0	9	
72	3	8	1	2	0	0	1	0	0	0	0	0	0	1	0	16	
73	1	6	0	2	0	0	0	0	0	0	0	1	2	0	0	12	
74	5	1	1	6	1	0	0	1	0	0	0	0	0	0	0	15	
75	3	4	2	4	0	0	2	1	1	0	0	0	0	1	0	18	
76	4	6	2	0	1	0	2	0	0	0	0	0	1	1	0	17	
77	5	3	0	1	0	0	0	0	0	0	0	0	1	0	0	10	
78	10	1	1	2	0	1	1	0	0	0	0	1	2	0	0	19	
79	3	1	2	0	0	0	1	2	0	0	0	1	0	0	0	10	
80	2	2	0	3	0	1	1	0	0	1	1	1	1	0	0	13	
81	6	0	0	2	2	0	0	0	0	0	0	0	0	0	0	10	
82	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5	
83	3	1	0	2	1	0	0	0	1	0	0	1	1	0	0	10	
84	4	3	0	1	0	0	0	0	0	0	0	0	0	1	0	9	
85	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
86	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5	
87	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	
88	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
89	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
90	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
93	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
97	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
103	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	72	59	12	38	9	3	8	5	2	1	2	11	16	1	239		

- 1. Shelikof
- 4. Barnabas
- 7. Geese Islands
- 15. Inner Marmot
- 19. Marmot-Izut Bay
- 2. Marmot Offshore
- 5. Twoheaded
- 8. Sitkinak Island
- 16. Malina-Raspberry
- 20. Uyak Bay
- 3. Chiniak Offshore
- 6. Alitak Flats
- 12. Kiliuda Bay
- 17. Ugak Bay

Appendix G.5. Arrowtooth flounder lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	5
10	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	9
11	3	0	2	4	0	0	3	0	0	1	0	0	0	0	0	0	4	1	0	0	18
12	9	1	1	7	0	0	1	1	0	0	0	1	0	0	0	9	4	2	1	37	
13	5	0	1	5	0	0	2	4	0	0	0	3	0	0	0	14	13	3	0	50	
14	8	1	0	2	0	0	1	11	1	0	0	8	1	2	0	12	24	2	1	74	
15	13	3	2	1	0	0	1	5	2	0	0	4	0	1	1	16	18	23	1	91	
16	7	5	4	4	0	0	1	1	3	1	0	7	0	2	0	7	7	22	2	73	
17	7	11	11	4	0	0	0	0	0	10	0	2	0	5	0	0	0	26	3	79	
18	23	9	12	6	5	0	0	0	0	10	1	2	0	13	0	6	2	19	6	114	
19	36	13	19	23	10	0	4	1	0	17	4	1	0	30	0	14	1	18	11	202	
20	55	8	19	54	37	0	5	0	2	15	8	9	1	27	0	23	12	9	23	307	
21	78	12	16	99	42	1	20	2	4	19	11	14	1	53	2	26	7	4	36	447	
22	83	4	12	118	33	4	29	5	19	45	23	25	12	22	7	43	5	7	52	548	
23	50	0	10	76	31	7	23	11	44	30	12	27	10	29	5	37	10	4	44	460	
24	65	1	3	65	18	24	27	5	70	31	12	36	15	30	6	42	2	0	43	495	
25	33	1	7	20	16	18	6	3	58	21	20	21	14	19	5	35	3	6	31	337	
26	21	2	2	21	4	26	8	3	43	8	16	17	7	6	5	23	0	0	19	231	
27	12	0	1	12	10	21	5	1	21	6	10	6	8	6	0	13	0	5	9	146	
28	26	5	9	10	9	14	2	0	11	4	10	9	12	5	3	10	2	0	6	147	
29	28	8	9	16	9	6	4	1	9	5	6	6	5	9	2	3	7	4	4	141	
30	34	5	8	26	7	4	12	0	18	3	3	5	6	3	2	4	4	7	7	158	
31	37	10	14	48	15	1	17	3	10	6	8	3	4	18	3	2	2	8	14	223	
32	41	9	11	57	18	8	15	0	7	7	5	4	9	12	1	3	0	9	21	237	
33	37	18	9	39	8	7	12	5	13	11	6	5	16	14	2	4	2	12	13	233	
34	44	12	7	50	12	5	15	3	5	8	6	12	27	7	5	12	7	5	18	260	
35	35	13	11	42	6	3	21	1	8	11	12	11	21	18	3	6	3	12	18	255	
36	41	18	10	60	14	7	22	3	9	5	3	9	27	12	2	7	3	18	22	290	
37	38	12	9	44	15	4	18	2	5	15	3	6	22	21	3	4	2	23	24	270	
38	32	9	10	45	12	5	16	4	8	5	9	8	30	16	3	4	13	19	16	284	
39	27	6	8	44	14	1	13	3	1	4	2	5	26	17	3	3	8	13	11	209	
40	36	5	5	43	9	0	10	4	6	2	7	1	18	9	4	5	5	11	8	188	
41	21	7	3	38	5	0	11	11	6	7	4	5	15	11	2	5	5	13	6	175	
42	20	6	2	32	5	2	13	11	2	3	2	3	6	11	0	3	7	9	5	142	
43	16	5	3	21	4	2	7	10	5	6	2	2	16	7	2	2	4	7	5	126	
44	24	9	2	33	3	2	5	9	0	2	3	3	11	6	1	2	6	4	2	127	
45	15	4	2	24	5	0	6	10	3	3	2	3	7	4	1	2	6	9	5	111	
46	21	4	1	20	4	0	10	5	2	0	3	5	4	5	2	3	7	8	2	106	
47	18	5	1	17	3	0	9	5	0	4	4	2	3	4	2	7	2	5	2	93	
48	30	2	1	25	3	0	4	7	0	1	2	2	10	7	1	1	8	17	2	123	
49	21	6	0	19	4	1	4	7	0	3	2	1	5	5	0	2	3	9	2	94	
50	19	5	1	21	3	0	4	4	0	2	3	2	5	4	1	2	3	14	3	96	
51	21	2	2	14	7	4	4	5	1	2	6	2	6	10	1	3	2	12	6	110	
52	24	12	3	27	2	2	3	7	1	1	3	5	7	8	1	3	2	8	3	122	
53	22	3	3	9	6	1	1	2	0	3	3	0	3	3	0	0	2	11	3	75	
54	15	5	7	12	3	1	5	0	0	2	3	1	6	3	0	4	3	6	4	80	
55	12	11	3	11	1	0	3	2	1	1	2	4	7	8	1	0	1	7	1	76	
56	19	9	3	11	3	3	4	1	0	0	2	3	5	5	0	2	3	5	3	81	
57	16	8	1	13	5	3	1	0	0	0	3	7	3	1	2	1	2	5	1	72	
58	18	4	4	8	7	4	2	0	0	0	2	3	4	2	1	2	1	10	2	74	
59	15	1	1	9	3	4	2	0	1	2	4	7	3	3	3	6	2	7	1	74	
60	11	3	2	8	2	3	0	0	0	1	9	5	1	3	2	5	2	3	0	60	
61	12	3	3	4	3	2	3	0	1	0	4	4	5	3	1	4	3	6	0	61	
62	19	1	1	4	2	1	4	1	1	0	3	5	7	2	0	1	1	5	1	59	
63	10	0	0	6	2	2	0	0	0	1	7	4	6	3	0	1	2	4	3	53	
64	12	0	0	2	1	0	0	0	0	0	4	2	5	3	1	1	1	2	2	36	
65	11	1	0	3	6	2	0	1	0	1	0	2	3	4	2	1	2	4	3	46	
66	3	0	2	4	1	0	0	0	1	0	2	7	2	3	3	0	3	1	2	36	
67	7	1	1	1	3	1	0	0	1	0	2	3	2	2	1	3	1	5	1	35	
68	5	1	2	4	7	0	1	0	1	4	1	3	3	0	2	0	1	0	0	35	

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Appendix G.5. (Page 2 of 2)

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
69	5	0	1	7	1	1	1	0	0	0	0	3	8	1	1	1	0	0	1	31	
70	5	0	0	2	3	0	0	0	0	1	0	1	2	3	0	0	1	0	1	19	
71	2	2	0	2	1	0	0	0	0	0	1	1	0	1	0	1	1	1	2	15	
72	3	0	0	0	1	0	0	0	0	0	2	1	1	1	0	2	1	2	0	14	
73	3	0	0	1	0	0	1	0	0	0	1	3	0	0	0	3	1	1	0	14	
74	1	1	0	1	0	0	0	0	0	1	1	2	3	1	0	0	0	0	1	12	
75	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	2	6	
76	2	1	0	0	1	0	0	0	0	1	0	1	2	0	0	0	0	0	0	8	
77	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	3	
78	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	3	
79	1	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	5	
80	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	
82	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
	1448	323	289	1465	465	208	422	180	402	351	290	372	476	547	97	472	259	493	545	9112	

- | | | | | |
|---------------------|--------------------|-----------------------|----------------------|------------------------|
| 1. Shelikof | 5. Twoheaded | 10. Alltak Bay | 14. Uganik Bay | 18. Southwest Offshore |
| 2. Marmot Offshore | 6. Alitak Flats | 11. Chiniak Bay | 15. Inner Marmot | 19. Marmot-Izhut Bay |
| 3. Chiniak Offshore | 7. Geese Islands | 12. Kiliuda Bay | 16. Malina-Raspberry | 20. Uyak Bay |
| 4. Barnabas | 8. Sitkinak Island | 13. Kupreanof-Viekoda | 17. Ugak Bay | |

Appendix G.6. Pacific halibut lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																					Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	Total		
≤ 25	5	1	0	0	0	0	0	0	32	43	1	0	0	0	0	0	0	0	0	0	0	82
26	0	0	0	0	0	0	0	0	1	7	7	0	0	0	0	0	0	0	0	0	0	15
27	2	0	0	0	0	0	0	0	0	16	12	0	0	0	0	0	0	0	0	0	0	30
28	0	1	0	0	0	0	0	0	0	10	8	0	0	0	0	0	0	1	0	0	0	20
29	2	0	0	0	0	0	0	0	0	6	7	1	0	0	0	0	0	0	0	0	0	16
30	4	0	0	0	0	0	0	0	0	8	10	0	0	0	0	0	0	0	0	0	0	22
31	1	0	0	0	0	0	0	0	1	4	0	1	0	0	0	0	0	0	0	0	0	7
32	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	0	0	1	0	0	0	8
33	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5
34	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
35	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5
36	0	0	0	0	0	0	0	0	0	2	2	0	1	0	0	0	0	0	0	0	0	5
37	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	3
38	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
39	0	1	0	0	0	1	0	0	0	2	1	1	0	0	0	0	1	0	0	0	0	7
40	1	0	0	0	1	2	0	0	0	2	0	0	1	0	0	0	1	1	0	0	0	8
41	0	0	0	3	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0	0	0	7
42	2	0	0	2	1	0	0	0	4	2	0	2	0	0	0	0	2	0	0	0	0	15
43	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	7
44	0	0	0	2	1	1	0	0	1	1	0	2	1	0	0	3	0	0	0	0	0	12
45	1	1	0	4	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	10
46	1	0	0	0	2	1	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	8
47	2	1	0	5	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	12
48	0	0	0	3	1	1	0	0	0	0	1	2	0	0	0	1	1	0	0	0	0	10
49	2	0	0	4	1	1	0	0	0	0	0	3	0	0	0	2	0	0	0	0	0	13
50	0	0	0	0	0	1	0	0	1	0	2	1	0	0	0	5	0	0	0	0	0	10
51	0	2	0	1	0	0	0	0	0	1	1	2	0	0	0	1	1	0	0	0	0	9
52	2	0	0	3	0	1	0	1	1	0	0	1	0	2	0	3	0	0	0	0	0	14
53	1	1	0	5	0	0	0	0	1	1	0	2	0	0	0	6	2	0	0	0	0	19
54	0	0	2	3	2	1	0	0	2	1	0	0	0	0	0	4	1	0	0	0	0	16
55	0	0	2	1	0	1	0	0	1	0	0	2	2	0	0	3	0	0	0	1	0	13
56	2	1	1	5	0	1	0	0	1	1	0	1	2	0	0	1	3	0	0	0	0	19
57	2	1	3	3	1	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	15
58	2	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	9
59	0	1	0	2	3	0	0	0	1	0	0	1	0	0	0	5	0	0	0	0	0	13
60	2	1	0	3	2	1	0	0	0	0	3	2	0	0	0	0	1	0	0	0	0	15
61	2	0	3	3	0	0	1	0	0	0	2	1	0	0	0	3	0	0	0	1	0	16
62	4	1	0	5	0	0	0	1	0	0	0	1	3	0	0	0	0	0	0	0	0	15
63	3	2	1	2	0	0	1	0	3	0	0	2	3	1	0	3	2	0	0	2	0	25
64	0	0	2	5	1	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	12
65	0	1	0	2	1	2	0	0	1	0	0	1	0	2	0	0	3	0	0	0	0	13
66	4	1	1	3	2	2	0	1	0	1	1	0	0	0	0	3	0	0	0	1	0	20
67	2	3	2	4	0	0	0	0	0	0	1	1	0	2	0	2	0	0	0	1	0	18
68	1	1	1	6	2	0	0	0	2	0	0	0	1	0	1	4	2	0	1	0	0	22
69	1	1	2	2	0	2	1	1	2	1	1	0	0	0	3	0	0	0	0	0	0	18
70	0	2	1	4	3	1	1	0	2	0	0	2	1	1	1	1	1	0	0	0	0	21
71	1	1	0	1	1	1	0	0	1	0	3	0	0	1	1	0	2	0	0	0	0	12
72	1	2	1	1	2	1	0	0	1	0	1	1	2	1	0	1	0	0	0	2	0	17
73	1	2	1	0	0	2	0	1	0	0	1	0	1	1	0	2	0	0	1	0	0	13
74	3	5	0	2	0	3	0	1	0	0	2	1	1	1	0	3	1	0	0	0	0	23
75	3	1	1	2	1	2	0	0	0	1	0	1	0	0	0	3	1	0	0	0	0	16
76	1	4	0	3	0	2	0	0	0	0	1	0	0	2	1	3	0	0	1	0	0	18
77	2	5	1	1	5	3	1	0	0	1	1	0	0	0	2	1	1	1	1	2	0	25
78	1	1	1	7	1	3	1	0	1	0	1	1	2	1	0	3	0	0	2	0	0	26
79	3	2	1	1	0	2	2	1	0	0	1	1	0	0	0	3	0	0	0	0	0	17
80	1	3	2	3	2	0	1	0	0	0	0	0	2	0	0	6	2	0	0	1	0	23
81	1	4	0	0	1	1	0	0	1	0	1	1	0	0	0	3	0	0	2	1	0	16
82	2	2	2	1	0	1	0	1	0	1	0	0	1	0	0	3	1	1	1	1	0	18
83	2	1	1	3	1	0	1	0	0	0	1	3	1	0	0	2	1	1	1	1	1	19
84	1	1	2	3	3	1	0	0	0	0	4	1	0	1	0	4	2	2	0	0	0	25
85	2	1	0	4	0	2	0	0	0	0	0	2	0	0	0	4	1	0	2	0	0	18
86	0	1	0	1	0	1	0	0	0	0	1	1	1	0	0	2	1	1	2	1	2	12

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Appendix G.6. (Page 2 of 2)

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
87	2	0	1	5	1	7	0	1	1	0	0	0	0	0	0	2	0	1	1	1	22
88	1	0	1	2	0	0	1	0	0	0	2	0	1	0	0	5	1	3	1	18	
89	0	2	1	2	2	4	0	0	0	0	1	0	0	0	1	3	0	0	0	16	
90	3	1	2	0	1	0	0	0	0	0	1	1	0	0	0	3	0	1	1	14	
91	1	1	2	1	0	0	0	0	0	0	0	2	2	0	1	2	0	1	0	13	
92	2	0	0	1	0	1	0	1	0	1	0	3	1	1	0	2	0	1	1	15	
93	1	0	1	3	0	2	0	0	1	0	0	0	0	0	1	0	0	0	0	9	
94	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	0	8	
95	1	0	1	0	2	1	1	0	0	0	0	0	0	1	0	0	0	0	2	9	
96	0	0	0	2	0	2	0	0	0	0	1	0	1	0	0	1	0	1	0	8	
97	1	0	0	1	0	0	0	1	0	0	2	3	0	0	1	1	0	0	1	11	
98	0	0	1	3	1	1	0	0	0	0	1	1	0	0	0	1	0	0	1	10	
99	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	4	
100	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	8	
101	0	0	1	2	0	2	0	0	0	0	1	0	0	0	0	0	1	3	0	10	
102	0	3	0	1	1	0	0	0	0	0	0	1	2	0	0	1	0	0	0	9	
103	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	4	
104	0	0	0	1	0	0	0	0	0	0	2	0	0	2	2	0	1	0	0	9	
105	2	0	0	0	1	1	2	0	0	0	0	1	0	1	0	1	0	0	0	9	
106	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	4	
107	0	0	0	0	0	2	1	0	0	1	0	1	0	0	0	0	0	1	0	6	
108	1	0	1	1	0	3	0	1	1	0	0	2	0	1	0	0	1	0	0	12	
109	2	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	1	0	7	
110	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	5	
111	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	
112	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	4	
113	1	0	1	1	0	1	0	0	0	0	1	2	1	0	0	0	0	0	0	8	
115	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	
116	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	4	
117	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	3	
118	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	
119	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	
120	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	4	
121	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	2	5	
122	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	
123	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2	
124	0	1	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	6	
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
127	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	3	
128	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
129	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
130	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
131	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
132	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	3	
133	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	
134	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
135	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
136	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
140	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
141	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
143	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
144	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
145	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	3	
146	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	
150	2	0	0	0	0	2	0	1	0	1	0	0	1	0	0	7	0	0	0	14	

- 1. Shellkof
- 2. Marmot Offshore
- 3. Chiniak Offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Ailitak Flats
- 7. Geese Islands
- 8. Siktiknak Island
- 10. Ailitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest Offshore
- 19. Marmot-Izhat Bay
- 20. Uyak Bay

Appendix G.7. Flathead sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
6	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3	
7	3	0	1	1	3	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	11
8	2	0	2	0	0	0	1	0	1	1	5	0	2	0	0	0	2	0	0	1	17
9	6	1	5	4	5	2	2	2	1	1	1	0	1	1	1	0	0	0	0	3	36
10	10	0	1	8	6	4	6	3	3	0	6	2	3	1	1	1	7	0	0	4	65
11	5	1	10	5	9	7	9	6	2	4	12	2	2	3	1	1	9	0	1	5	93
12	16	4	2	13	16	18	9	15	4	5	9	2	4	9	3	10	0	2	6	147	
13	12	8	3	11	28	26	17	6	10	5	27	3	6	13	3	17	9	6	10	220	
14	26	7	5	16	25	34	9	5	12	13	10	6	3	11	5	20	7	5	3	222	
15	26	14	12	26	46	18	13	3	18	7	18	10	6	14	6	21	13	2	4	275	
16	21	4	14	24	43	17	19	4	21	8	12	4	5	15	5	24	8	6	3	257	
17	15	5	14	15	30	13	17	1	25	6	12	11	10	29	3	23	10	6	6	251	
18	15	2	13	14	19	33	16	1	15	8	14	9	5	19	7	23	8	7	7	235	
19	17	6	9	25	23	28	25	1	20	7	8	8	10	30	5	15	2	12	19	270	
20	11	4	4	30	32	31	25	4	18	18	7	18	8	24	8	27	2	14	8	293	
21	8	12	8	27	29	21	33	2	24	5	15	19	12	19	5	19	5	15	17	295	
22	18	6	11	31	36	19	26	4	19	10	14	10	6	25	4	13	3	20	10	285	
23	12	9	8	27	31	13	20	2	27	7	7	10	12	23	6	10	8	30	14	276	
24	21	7	10	29	34	18	22	1	35	7	13	22	14	21	6	10	5	19	17	311	
25	21	15	6	31	19	25	17	0	31	15	13	12	10	21	11	10	2	29	20	308	
26	17	20	6	26	26	31	29	0	42	10	14	16	11	16	4	14	2	22	27	333	
27	38	12	8	42	23	34	17	2	45	10	15	23	11	23	3	16	1	13	33	369	
28	31	12	7	32	42	27	24	1	53	15	12	31	18	38	7	12	4	12	37	415	
29	23	7	11	43	47	33	24	2	56	6	21	32	32	26	5	10	5	13	48	444	
30	42	9	9	38	63	21	26	1	58	9	25	39	35	35	12	12	7	12	46	499	
31	44	8	19	63	49	37	20	0	59	16	33	30	52	54	8	16	5	16	55	584	
32	60	7	7	60	53	25	22	5	42	13	22	37	51	47	11	14	14	27	42	559	
33	48	19	14	67	51	21	16	3	37	17	33	27	48	58	21	18	9	34	41	582	
34	57	22	15	72	60	23	18	2	25	21	34	45	45	61	7	19	16	37	33	612	
35	35	18	11	65	46	15	17	6	29	21	19	39	39	47	8	20	4	43	28	510	
36	37	17	11	55	32	11	17	8	32	20	24	25	39	48	9	15	4	46	14	464	
37	27	16	14	70	24	11	16	3	20	24	21	27	22	48	9	12	3	48	12	427	
38	38	14	9	46	22	8	8	3	11	12	22	25	23	32	4	9	1	40	15	342	
39	24	13	11	43	8	9	14	4	6	16	15	18	19	27	7	8	4	40	11	297	
40	23	7	9	26	11	7	9	1	12	3	10	11	11	14	6	8	0	20	8	186	
41	24	4	7	16	8	6	4	1	8	5	16	7	11	14	1	17	3	28	1	181	
42	9	2	5	13	4	4	1	4	3	1	12	2	5	9	1	15	0	9	0	99.	
43	8	1	4	6	6	0	3	0	3	7	8	2	3	7	3	14	3	12	3	93	
44	4	0	1	9	2	0	0	2	0	4	10	2	3	2	0	9	1	1	0	50	
45	1	0	1	0	1	1	0	0	0	1	3	1	0	2	1	6	1	0	0	20	
46	0	0	3	3	2	1	1	0	0	2	4	0	0	0	0	4	0	0	0	20	
47	0	0	1	2	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	7	
48	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	3	0	0	0	6	
49	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	

- 1. Shellkof
- 2. Marmot Offshore
- 3. Chiniak Offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest Offshore
- 19. Marmot-Izhat Bay
- 20. Uyak Bay

Appendix G.8. English sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group									
	3	4	5	7	13	14	17	20	Total	
<30	0	3	0	0	0	0	0	1	4	
31	0	0	0	0	0	0	0	2	2	
32	0	1	0	0	0	1	0	1	3	
33	0	0	0	0	2	0	0	2	4	
34	0	0	0	0	0	1	0	2	3	
35	0	2	0	0	2	2	0	0	6	
36	0	2	0	0	2	3	0	3	10	
37	0	0	0	0	1	2	1	2	6	
38	0	2	1	0	2	4	0	1	10	
39	0	0	0	0	2	4	0	2	8	
40	0	2	0	0	3	7	0	2	14	
41	0	1	0	0	2	6	1	0	10	
42	1	1	0	0	2	1	0	0	5	
43	0	2	0	1	1	4	0	3	11	
44	0	1	0	0	0	3	0	2	6	
45	0	0	1	0	1	1	0	0	3	
46	0	3	0	0	0	3	0	1	7	
47	0	1	0	0	1	3	0	2	7	
48	0	1	0	0	2	1	0	0	4	
49	0	2	0	0	1	2	0	1	6	
>50	0	4	0	0	8	7	0	9	28	
	1	28	2	1	32	55	2	36	157	

Appendix G.9. Dover sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																			
	1	2	3	4	5	7	8	10	11	12	13	14	15	16	17	18	19	20	Total	
<30	21	3	6	5	2	1	1	0	4	4	8	1	1	0	1	0	0	0	58	
31	0	1	7	4	1	1	0	0	2	7	2	0	0	0	0	0	0	0	25	
32	1	0	8	1	2	0	0	0	1	2	3	1	0	1	0	0	0	0	21	
33	0	1	5	4	3	0	1	0	0	3	2	0	0	0	0	0	0	0	20	
34	0	0	18	5	3	0	0	0	0	0	0	3	0	1	0	0	0	0	30	
35	0	1	12	1	3	0	0	0	0	0	1	0	0	1	0	0	0	0	20	
36	0	0	5	3	0	0	0	0	0	1	2	1	0	2	0	0	0	0	14	
37	0	0	5	1	3	0	0	0	0	0	0	0	0	0	1	0	0	0	15	
38	0	0	4	3	3	0	0	0	1	1	0	1	2	4	0	0	0	0	23	
39	0	1	3	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0	11	
40	0	0	5	3	1	0	0	2	0	0	2	0	1	0	0	0	0	0	14	
41	0	1	0	6	2	0	0	1	1	1	2	0	0	0	0	0	0	0	17	
42	0	3	3	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	13	
43	0	0	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
44	0	0	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	
45	0	2	2	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9	
46	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	
47	0	2	0	3	0	0	0	1	0	0	2	0	0	0	0	0	0	1	10	
48	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	4	
49	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
50	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	3	
51	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
52	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
53	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
54	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	3	
55	0	2	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	6	
56	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3	
57	0	2	0	4	0	0	0	1	0	0	0	0	0	0	0	0	1	0	8	
58	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
59	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	4	
>60	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	3	0	0	9	
	22	24	86	76	29	2	3	15	9	20	27	7	5	10	1	8	1	21	366	

- 1. Shelikof
- 5. Twoheaded
- 11. Chiniak Bay
- 15. Inner Marmot
- 19. Marmot-Izhut Bay
- 2. Marmot Offshore
- 7. Geese Islands
- 12. Kitiuda Bay
- 16. Malina-Raspberry
- 20. Uyak Bay
- 3. Chiniak Offshore
- 8. Slatkinak Island
- 13. Kupreanof-Vlekoda
- 17. Ugak Bay
- 4. Bamabas
- 10. Alitak Bay
- 14. Uganik Bay
- 18. Southwest Offshore

Appendix G.10. Rex sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
≤20	43	12	4	58	15	13	27	4	4	7	5	6	1	11	0	1	5	8	24	248	
21	7	8	3	10	4	0	2	0	1	0	0	3	0	7	0	0	0	8	5	58	
22	7	7	0	6	2	2	2	0	3	1	2	0	0	2	0	0	1	4	7	46	
23	6	0	3	4	4	0	0	0	2	2	0	1	0	7	0	0	0	4	5	38	
24	8	1	1	4	5	0	3	0	1	1	0	2	0	1	0	0	0	1	4	32	
25	2	4	2	5	2	0	3	0	0	1	1	2	0	0	0	0	0	0	5	27	
26	5	2	0	5	5	1	2	1	2	0	1	0	0	1	0	0	0	4	3	32	
27	2	2	4	6	6	0	3	0	2	0	2	1	0	2	1	0	0	3	4	38	
28	3	10	0	8	5	0	5	0	2	1	0	4	0	0	0	0	0	2	1	41	
29	8	5	3	9	7	0	4	2	0	1	2	2	2	4	0	0	1	3	10	63	
30	3	4	2	10	10	1	0	1	0	0	1	3	6	2	0	0	1	1	8	53	
31	7	5	2	12	5	1	0	8	0	2	0	3	4	3	1	0	0	1	1	54	
32	6	5	4	4	12	0	1	1	0	0	4	8	4	1	1	0	1	0	3	55	
33	4	2	8	14	13	0	0	3	0	1	2	2	0	4	1	0	0	1	3	58	
34	5	6	3	13	12	0	1	4	0	2	5	4	3	1	0	0	0	1	3	63	
35	6	6	17	15	17	0	0	3	0	1	3	8	1	0	0	0	1	1	1	80	
36	3	8	9	16	14	0	0	5	0	1	2	4	2	1	0	0	0	3	2	70	
37	0	3	12	16	7	0	1	5	0	3	1	4	0	1	0	0	0	3	1	57	
38	7	2	11	16	6	0	1	9	0	0	1	4	1	0	0	0	0	0	2	60	
39	0	2	7	16	1	0	0	12	0	1	0	5	0	1	1	0	0	1	2	49	
40	1	2	5	9	3	0	1	10	0	1	1	0	0	0	0	0	0	0	2	35	
41	0	1	4	9	1	0	1	12	0	0	0	3	0	0	0	0	0	0	0	31	
42	1	0	0	8	2	0	0	12	0	0	0	3	0	0	0	0	1	0	1	28	
43	0	0	2	9	0	0	0	9	0	0	1	0	0	0	0	0	0	0	0	21	
44	0	0	3	12	0	0	0	8	0	0	0	1	0	0	0	0	1	0	0	25	
>45	0	1	2	31	3	0	3	14	0	0	2	5	0	0	0	0	4	0	0	65	
	134	98	111	325	162	18	60	121	17	28	36	78	24	49	5	1	16	49	97	1427	

- | | | | | |
|---------------------|--------------------|-----------------------|----------------------|------------------------|
| 1. Shelikof | 5. Twoheaded | 10. Alitak Bay | 14. Uganik Bay | 18. Southwest Offshore |
| 2. Marmot Offshore | 6. Alitak Flats | 11. Chinlak Bay | 15. Inner Marmot | 19. Marmot-Izhut Bay |
| 3. Chiniak Offshore | 7. Geese Islands | 12. Kiliuda Bay | 16. Malina-Raspberry | 20. Uyak Bay |
| 4. Barnabas | 8. Sitkinak Island | 13. Kupreanof-Viekoda | 17. Ugak Bay | |

Appendix G.11. Yellowfin sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	5	6	10	11	12	13	14	15	17	20	Total										
≤20	0	0	2	6	0	2	0	0	10	0	20										
21	0	0	1	5	0	2	0	0	0	0	8										
22	1	0	2	0	0	3	0	1	2	0	9										
23	1	0	2	4	0	3	0	2	2	0	14										
24	3	1	4	2	0	1	1	2	6	1	21										
25	2	0	3	15	0	9	0	1	5	2	37										
26	1	2	12	3	0	6	4	6	8	4	46										
27	1	2	11	3	0	8	1	9	6	9	50										
28	4	0	6	3	0	12	3	12	5	4	49										
29	5	2	12	4	0	17	2	13	7	6	68										
30	8	0	12	4	0	17	4	19	10	13	87										
31	6	1	17	11	0	10	3	27	11	18	104										
32	11	1	19	2	0	29	5	21	14	13	115										
33	7	2	19	15	0	22	4	23	18	10	120										
34	11	1	23	7	0	23	8	17	16	9	115										
35	15	4	15	7	0	21	8	15	5	3	93										
36	10	3	26	7	0	9	7	9	9	3	83										
37	11	3	21	7	0	3	4	5	3	0	57										
38	11	3	16	12	1	1	0	3	3	0	50										
39	6	1	10	7	0	0	3	5	2	0	34										
40	2	8	7	4	0	2	0	0	2	0	25										
41	9	8	9	6	0	2	0	0	1	0	35										
42	4	2	2	1	0	0	0	1	2	0	12										
43	1	0	3	1	0	0	0	0	1	0	6										
44	0	0	1	0	0	0	0	0	1	0	2										
45	0	1	0	1	0	0	0	0	0	0	2										
	130	45	255	137	1	202	57	192	148	95	1262										

Appendix G.12. Starry flounder lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group										Total
	1	4	6	11	12	13	15	17	20		
15	0	0	0	0	0	0	0	1	0	1	
31	0	0	0	0	0	1	0	0	0	1	
35	0	0	0	0	0	0	0	1	0	1	
37	0	0	0	0	0	0	0	1	0	1	
38	0	0	0	0	0	0	1	0	0	1	
40	0	0	0	0	0	0	0	1	0	1	
41	0	0	0	0	2	0	1	1	0	4	
42	0	0	0	0	0	7	0	1	0	8	
43	0	0	0	0	0	4	4	2	2	12	
44	0	0	0	1	1	4	4	0	1	11	
45	1	0	0	2	1	5	2	1	1	13	
46	0	0	0	0	2	2	1	1	3	9	
47	0	1	0	0	1	3	0	0	5	10	
48	0	0	0	1	0	2	4	0	4	11	
49	0	0	0	0	4	1	0	0	2	7	
50	0	1	0	1	2	0	0	0	2	8	
51	0	1	0	0	0	0	0	0	2	3	
52	0	0	0	0	1	0	1	0	2	4	
53	0	0	0	0	0	0	0	0	2	2	
54	0	0	0	2	2	0	2	0	1	7	
55	0	0	1	0	0	0	0	1	3	5	
56	0	0	1	0	0	0	0	0	1	2	
57	0	0	1	0	0	0	0	0	1	2	
58	0	0	0	0	0	0	0	0	2	2	
59	0	0	0	0	1	1	0	0	1	3	
60	0	0	0	0	0	0	0	0	2	2	
61	0	0	1	0	0	0	0	0	0	1	
62	0	1	0	0	0	0	0	0	0	1	
65	0	0	0	0	0	0	0	0	1	1	
66	0	0	0	0	1	0	0	0	0	1	
69	0	0	0	0	0	0	0	1	0	1	
	1	4	4	7	18	30	20	12	38	134	

- 1. Shelikof
- 4. Barnabas
- 6. Alitak Flats
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 15. Inner Marmot
- 17. Ugak Bay
- 20. Uyak Bay

Appendix G.13. Alaska plaice lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group										Total
	1	5	6	10	11	13	14	15	16	17	
≤32	0	0	0	0	6	0	0	0	0	0	0
33	0	0	2	1	0	0	2	0	0	0	5
34	0	0	0	0	0	1	0	0	0	0	1
35	0	0	0	0	0	0	0	0	0	1	1
36	0	0	2	0	0	0	0	0	0	0	1
37	1	0	1	1	1	0	1	0	0	0	8
38	0	0	3	0	0	0	0	0	0	0	3
39	0	0	1	0	0	0	0	0	0	2	3
40	0	0	0	1	1	1	0	0	0	1	4
41	0	0	3	0	0	0	2	0	0	1	8
42	0	0	1	2	0	4	1	0	0	2	10
43	1	0	0	1	1	2	3	0	0	6	14
44	0	0	1	2	1	2	4	0	0	2	12
45	0	0	0	4	1	0	1	0	0	2	8
46	0	1	0	2	0	1	3	0	0	0	11
47	0	0	0	2	2	1	2	0	0	0	7
48	0	0	1	0	1	1	0	0	0	0	3
50	0	0	0	1	1	0	2	0	0	2	6
51	0	0	0	2	0	3	0	0	0	0	7
52	0	0	0	1	0	1	1	0	0	0	5
53	1	1	0	1	2	1	1	1	0	0	8
>54	3	0	3	12	2	6	8	1	2	1	45
	6	2	18	33	19	24	31	2	2	39	178

- 1. Shelikof
- 5. Twoheaded
- 6. Alitak Flats
- 10. Alitak Bay
- 11. Chiniak Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 20. Uyak Bay

Appendix G.14. Sablefish lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	7	8	10	11	12	13	14	15	16	17	18	19	20			
<35	3	1	0	0	9	2	0	2	8	4	2	3	11	0	14	1	0	1	1	61	
36	0	0	0	1	1	0	0	1	1	2	2	4	0	0	0	0	0	0	0	12	
37	1	1	0	0	3	0	0	0	0	1	3	3	2	0	0	0	0	0	1	15	
38	0	0	0	2	6	1	0	0	1	1	2	7	0	0	0	0	0	0	4	24	
39	1	0	0	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	2	11	
40	1	0	0	0	1	0	0	0	0	0	2	12	0	0	0	0	0	0	1	17	
41	2	0	0	0	0	0	0	0	0	0	1	4	0	0	1	0	0	0	1	9	
42	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2	4	
43	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	
44	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	
45	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	
46	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4	
47	1	4	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	10	
48	0	9	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	14	
49	0	9	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	11	
50	2	2	1	1	0	0	8	1	0	0	0	2	0	0	0	0	0	1	0	18	
51	3	14	0	2	0	0	7	0	0	0	0	1	0	0	0	0	1	0	0	28	
52	2	24	1	3	0	0	7	0	0	0	0	1	0	0	0	0	0	0	0	38	
53	6	25	0	3	0	0	3	1	0	0	0	1	0	0	0	1	1	0	0	41	
54	5	23	0	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	32	
55	7	19	2	5	0	0	1	0	0	0	0	0	0	0	0	4	1	0	0	39	
56	10	16	2	8	0	0	1	0	0	0	0	0	0	0	0	5	2	1	45		
57	12	20	1	3	0	0	3	0	0	0	0	0	0	0	0	0	10	2	0	51	
58	17	14	4	8	0	0	1	0	0	0	0	0	0	0	0	0	11	5	0	60	
59	12	11	2	9	0	0	1	0	0	0	0	0	0	0	0	6	1	0	0	42	
60	12	6	2	9	0	0	1	0	0	0	0	0	0	0	0	8	0	0	0	38	
61	13	4	1	6	0	0	1	0	1	0	0	0	0	0	0	9	1	0	0	36	
62	9	5	3	6	0	0	0	0	1	0	0	0	0	0	0	7	4	0	0	35	
63	6	2	4	2	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	17	
>64	15	3	4	13	0	1	1	0	0	0	0	0	0	0	0	5	8	0	0	50	
	141	214	28	84	21	4	43	10	13	8	16	44	14	2	15	69	28	16	770		

- | | | | | | |
|---------------------|------------------|--------------------|-----------------------|----------------------|------------------------|
| 1. Shelikof | 4. Barnabas | 8. Sitkinak Island | 12. Kiliuda Bay | 15. Inner Marmot Bay | 18. Southwest Offshore |
| 2. Marmot Offshore | 5. Twoheaded | 10. Alitak Bay | 13. Kupreanof-Viekoda | 16. Malina-Raspberry | 19. Marmot-Izhu Bay |
| 3. Chiniak Offshore | 7. Geese Islands | 11. Chiniak Bay | 14. Uganik Bay | 17. Ugak Bay | 20. Uyak Bay |

Appendix G.15. Butter sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	2	3	4	5	6	7	8	10	11	12	17	18	20	Total							
<20	17	0	81	0	0	0	1	0	1	2	2	0	0	0	104						
21	1	0	7	0	0	0	0	0	0	0	0	0	0	0	8						
22	2	0	10	0	0	0	0	0	0	0	0	0	0	0	12						
23	1	0	6	0	0	0	0	0	0	0	1	1	1	0	10						
24	1	0	12	0	1	0	1	0	0	0	0	0	1	0	16						
25	0	0	10	0	0	0	1	1	0	1	0	0	0	0	13						
26	0	0	13	0	1	0	1	2	0	0	1	1	1	0	19						
27	1	0	10	0	3	0	1	4	0	0	0	0	0	1	20						
28	0	0	14	1	3	0	1	8	0	0	3	0	0	0	30						
29	0	0	13	3	2	0	1	7	1	0	0	1	0	0	28						
30	0	0	4	2	3	1	1	8	0	0	6	4	0	0	29						
31	1	0	4	3	2	0	1	8	2	1	2	4	0	0	28						
32	0	0	5	1	6	0	2	17	2	0	2	0	1	0	36						
33	0	0	10	2	4	0	1	10	4	0	3	2	0	0	36						
34	0	1	4	6	4	0	0	19	4	0	6	8	0	0	52						
35	2	0	4	4	2	0	1	18	5	0	3	2	0	0	41						
36	0	1	2	3	2	1	0	13	4	0	2	6	1	0	35						
37	0	3	2	3	5	1	0	8	5	0	1	4	0	0	32						
38	0	3	1	9	3	1	1	8	3	0	2	9	1	0	41						
39	0	8	0	4	4	0	1	4	5	0	2	4	0	0	32						
40	1	1	1	4	0	1	1	3	0	0	2	6	0	0	20						
>41	0	11	5	4	7	1	0	9	4	0	14	3	0	0	58						
	27	28	218	49	52	6	16	147	40	5	52	56	4	0	700						

Appendix G.16. Pacific cod lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
<30	0	0	3	2	0	0	0	1	4	40	0	1	1	0	0	9	0	0	3	64	
31	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	5	
32	1	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	6	
33	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	6	
34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	
35	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	
36	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5	
37	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	4	
38	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2	
39	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	6	
40	0	0	1	2	0	0	0	0	1	1	0	2	1	0	0	1	0	0	0	9	
41	1	0	1	1	1	0	0	0	3	3	1	3	2	1	0	0	0	0	0	19	
42	2	3	1	1	0	1	0	0	1	2	1	1	1	0	0	2	0	0	0	16	
43	1	3	3	3	0	1	0	0	10	1	0	6	1	1	0	3	0	0	1	34	
44	1	1	2	6	2	0	2	0	1	2	0	7	1	1	0	3	0	0	0	29	
45	1	4	3	4	0	0	0	1	1	1	3	7	1	0	0	3	0	0	1	30	
46	6	7	3	7	0	0	3	1	6	4	4	8	0	1	0	4	0	0	1	56	
47	2	2	5	6	1	1	0	1	1	5	2	7	0	1	0	8	0	0	1	44	
48	2	3	6	5	0	1	0	2	5	2	1	10	3	0	2	3	0	0	1	47	
49	3	5	10	10	1	0	1	6	2	3	0	2	2	2	2	1	2	0	0	51	
50	0	5	9	5	0	2	0	3	2	1	2	3	4	1	1	4	0	1	1	44	
51	5	3	9	8	1	0	0	2	2	3	2	5	0	1	0	5	0	1	4	51	
52	3	1	2	10	1	1	0	1	4	2	0	2	1	0	1	5	0	0	1	35	
53	2	1	2	8	3	0	0	6	2	3	3	1	1	0	0	2	0	0	1	40	
54	3	3	5	9	1	2	1	1	1	1	6	4	1	0	0	4	0	0	1	43	
55	2	3	6	13	6	6	2	5	4	4	4	3	1	0	0	3	1	0	2	65	
56	3	3	3	12	3	3	0	1	1	4	5	2	2	1	1	2	2	0	1	49	
57	3	2	3	13	3	2	1	3	3	1	3	4	0	0	5	0	0	1	1	51	
58	1	1	2	8	6	4	1	7	0	2	11	1	2	1	2	7	1	0	2	59	
59	5	2	6	11	5	1	1	9	3	7	4	3	4	0	1	4	0	1	2	69	
60	5	5	2	8	5	3	2	5	1	3	7	2	2	0	2	8	0	0	5	65	
61	6	1	6	21	2	0	2	4	4	7	6	2	1	0	0	12	0	0	1	77	
62	3	4	4	10	6	8	6	2	3	6	7	1	7	6	1	7	0	4	6	91	
63	6	3	3	10	3	5	0	3	3	5	3	1	3	0	0	7	0	6	4	65	
64	8	5	5	10	6	4	2	3	2	8	3	1	2	2	0	8	1	2	1	73	
65	8	2	7	9	7	4	4	4	2	7	4	0	4	2	2	2	8	1	1	78	
66	3	5	6	17	7	9	0	3	2	3	6	1	2	3	0	1	1	2	2	73	
67	2	6	8	13	7	2	2	1	2	4	2	4	1	4	1	6	3	3	2	73	
68	2	4	4	4	6	3	1	5	2	5	2	0	1	1	1	4	0	0	3	49	
69	2	5	6	7	14	4	5	1	1	2	6	1	3	2	0	4	0	0	2	67	
70	3	2	3	4	14	7	4	1	3	5	3	1	4	2	0	6	5	1	2	70	
71	2	1	4	4	15	3	2	1	2	6	5	0	2	4	1	3	0	3	1	59	
72	2	1	2	2	7	4	2	1	1	2	5	1	3	1	0	2	0	1	0	37	
73	3	1	1	5	4	7	1	0	0	0	3	0	1	0	1	2	0	0	1	31	
74	0	0	1	4	6	0	1	1	0	1	3	0	1	1	0	2	0	0	3	24	
75	0	0	3	1	4	5	1	2	1	0	4	0	1	2	0	4	0	0	1	29	
76	2	1	1	1	3	1	1	0	1	2	3	0	0	0	0	2	0	3	1	22	
77	2	0	2	5	1	0	0	0	1	1	2	0	0	0	2	1	0	0	1	18	
78	0	1	0	0	4	1	0	0	0	0	1	1	0	0	0	1	0	0	0	10	
79	0	0	0	2	2	0	0	1	1	0	1	0	0	0	0	2	1	1	0	11	
80	2	0	1	0	2	2	1	0	1	1	0	0	0	2	0	0	0	0	0	12	
81	0	0	0	0	3	0	0	0	1	0	1	0	1	0	0	1	0	0	1	8	
82	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0	2	0	0	6	
83	1	0	1	0	2	0	0	0	0	0	2	0	0	0	0	0	1	0	0	7	
84	0	0	0	0	2	0	0	0	0	0	1	0	0	1	1	1	0	0	0	6	
85	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	
86	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3	
87	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	4	
88	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
89	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	115	101	157	284	169	100	49	88	100	169	131	100	79	44	21	177	19	57	58	2018	

- 1. Shelikof
- 5. Twoheaded
- 10. Alitak Bay
- 14. Uganik Bay
- 18. Southwest Offshore
- 2. Marmot Offshore
- 6. Alitak Flats
- 11. Chinlak Bay
- 15. Inner Marmot
- 19. Marmot-Izhu Bay
- 3. Chiniak Offshore
- 7. Geese Islands
- 12. Kiliuda Bay
- 16. Malina-Raspberry
- 20. Uyak Bay
- 4. Barnabas
- 8. Siltkinak Island
- 13. Kupreanof-Vlekoda
- 17. Ugak Bay

Appendix G.17. Walleye pollock lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																				Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	8
8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
9	15	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	26
10	4	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	11
11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	2
14	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	7
15	0	0	0	1	3	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	36
16	0	0	0	0	1	0	0	0	0	0	2	3	0	46	0	2	0	0	0	0	54
17	0	3	0	0	2	0	0	0	0	0	0	1	0	29	0	1	0	0	0	0	36
18	0	1	0	5	0	0	0	0	1	0	0	1	0	14	0	0	0	0	0	0	22
19	0	1	0	1	3	0	0	0	0	0	0	6	0	14	0	0	0	0	0	0	25
20	2	0	0	2	0	0	0	0	0	0	0	6	0	3	0	0	0	0	0	0	13
21	1	1	0	1	0	1	0	0	0	0	0	15	0	2	0	0	0	0	0	0	21
22	1	0	0	0	0	1	0	0	0	0	0	10	0	0	1	0	5	0	2	0	20
23	2	1	0	0	0	3	0	0	0	0	0	1	0	0	1	0	0	3	0	0	11
24	4	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	5	1	0	15
25	9	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	14
26	10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	14
27	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	17
28	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	9	0	1	0	16
29	2	0	0	1	0	0	0	0	6	2	0	1	0	0	0	13	0	0	0	0	25
30	1	0	0	0	1	0	0	0	8	0	0	0	0	0	0	12	0	0	0	0	22
31	6	0	1	1	0	0	0	0	5	2	0	5	0	0	0	11	0	0	0	0	31
32	2	0	0	2	1	1	0	0	7	2	0	4	3	0	0	7	0	0	1	0	30
33	4	0	0	4	1	0	0	0	9	4	0	9	0	0	0	9	0	1	3	0	44
34	7	0	0	8	3	0	0	0	11	1	0	13	3	0	1	12	0	0	6	0	65
35	5	0	1	11	5	0	0	0	3	2	0	5	3	0	0	12	0	0	2	0	49
36	4	0	2	11	8	1	0	0	6	2	0	10	3	0	3	6	0	0	2	0	58
37	8	0	2	9	25	0	0	0	13	1	0	7	2	0	7	4	0	0	1	0	79
38	6	0	0	14	18	2	0	0	38	2	0	8	3	3	12	5	0	0	0	0	111
39	5	0	0	14	13	2	0	0	36	0	2	6	3	1	6	4	0	0	2	0	94
40	6	0	0	4	13	9	1	0	55	2	0	4	3	2	4	5	0	0	3	0	111
41	8	0	0	8	8	8	0	0	52	2	2	4	3	2	7	5	0	0	1	0	110
42	11	0	1	4	3	5	0	0	54	3	0	4	7	2	5	7	1	0	1	0	108
43	10	1	1	6	2	12	0	0	26	2	1	5	5	3	3	5	0	0	1	0	83
44	11	0	3	3	9	9	0	0	29	7	4	7	4	1	1	11	0	0	2	0	101
45	5	0	5	7	11	11	5	0	17	10	2	9	7	4	1	14	2	0	5	0	115
46	12	0	2	3	13	15	4	0	19	4	7	18	10	5	5	18	1	0	1	0	137
47	13	0	3	6	20	23	5	0	18	17	8	9	16	2	4	22	0	0	8	0	174
48	9	0	5	13	37	21	4	0	22	12	13	9	20	1	1	15	0	0	13	0	195
49	18	3	6	13	38	20	6	0	24	20	15	17	16	7	4	17	0	0	12	0	236
50	6	0	11	12	32	29	14	0	27	18	11	17	17	6	6	22	0	1	14	0	243
51	7	4	15	24	46	23	10	0	30	16	14	10	23	4	11	25	0	1	13	0	276
52	16	5	9	20	45	20	11	0	20	9	22	16	17	5	16	16	0	2	16	0	265
53	4	8	17	15	25	24	2	0	19	10	21	15	26	14	13	25	0	2	9	0	249
54	12	8	23	32	17	23	8	0	27	8	12	18	16	14	17	35	0	1	11	0	282
55	7	22	18	28	29	17	2	0	15	11	12	18	13	10	11	28	1	1	11	0	254
56	7	12	24	29	21	16	1	0	23	8	20	20	11	10	6	16	1	1	12	0	238
57	9	20	29	32	25	13	3	0	23	8	13	8	16	16	6	28	0	1	13	0	263
58	2	10	24	37	31	8	2	0	20	4	11	10	11	15	12	19	1	0	4	0	221
59	9	12	19	25	19	16	3	0	15	4	12	4	19	19	6	21	0	2	11	0	216
60	8	6	14	21	32	11	1	0	15	1	10	6	8	19	3	21	0	2	7	0	185
61	2	15	10	20	32	9	2	0	15	1	9	6	8	22	2	25	0	0	5	0	183
62	3	10	5	15	36	10	2	0	7	2	12	6	8	10	2	18	0	2	7	0	155
63	2	5	3	14	6	6	2	0	7	4	11	4	6	9	4	18	0	2	7	0	110
64	2	1	2	3	11	2	0	0	11	2	20	4	8	7	2	13	0	0	4	0	92
65	2	2	1	11	21	0	2	0	3	0	0	7	7	2	9	0	0	6	0	84	
66	0	1	1	6	2	0	1	1	7	0	6	3	3	5	1	7	0	0	2	0	46
67	0	0	0	5	7	0	2	0	3	2	5	0	6	2	0	11	0	0	4	0	47
68	1	0	0	2	5	0	0	0	3	0	3	1	0	3	0	4	0	1	1	0	24
69	0	0	0	4	2	0	0	0	2	0	3	1	1	2	0	4	0	0	0	0	19
70	0	0	0	0	4	0	0	0	0	0	4	0	4	1	0	1	0	0	0	0	14
71	0	0	0	0	0	0	0	0	4	0	2	0	0	3	0	0	0	1	0	0	13
>72	0	0	0	0	3	0	0	0	3	0	4	0	3	1	0	5	0	0	2	0	21

- 1. Shellikof 4. Bamabas 7. Geese Islands 11. Chiniak Bay 14. Uganik Bay 17. Ugak Bay 20. Uyak Bay
- 2. Marmot Offshore 5. Twoheaded 8. Sitkinak Island 12. Kiliuda Bay 15. Inner Marmot 18. Southwest Offshore
- 3. Chiniak Offshore 6. Alitak Flats 10. Alitak Bay 13. Kupreanof-Viekoda 16. Malina-Raspberry 19. Marmot-Izhut Bay

Appendix G.18. Rougheye rockfish lengths by area from the 2001 trawl survey of the Koc

Length (cm)	Area Group																			Total
	1	2	3	4	5	6	7	10	11	12	13	15	17	19	20					
10	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
11	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	3	
13	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
14	2	0	0	2	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	7
15	0	0	0	3	1	0	3	0	0	0	0	0	1	0	1	0	0	0	0	9
16	1	0	0	5	3	0	0	1	0	0	0	0	1	0	3	0	0	0	0	14
17	1	0	0	2	1	0	1	1	0	1	0	0	0	0	3	1	1	1	1	11
18	1	0	0	6	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	11
19	0	0	0	2	1	0	2	0	0	1	0	0	0	0	0	2	0	0	0	8
20	2	0	0	0	4	0	2	0	0	0	0	0	0	0	0	1	0	0	0	9
21	2	0	0	3	2	1	2	1	0	1	0	0	0	0	0	1	0	0	0	13
22	1	0	0	3	2	0	1	1	0	1	0	1	0	1	0	2	0	0	0	12
23	1	0	0	2	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	8
24	4	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
25	2	0	0	2	3	0	3	0	0	3	0	0	0	0	0	1	0	0	0	14
26	1	0	0	4	4	1	2	0	0	1	0	0	0	0	0	2	0	0	0	15
27	2	0	0	4	4	0	3	1	0	0	0	0	0	0	0	0	0	0	0	14
28	1	0	0	6	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	11
29	5	0	0	5	1	0	3	1	0	3	0	0	1	0	3	0	0	0	0	22
30	0	0	0	7	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	10
31	0	0	0	6	4	0	1	0	0	0	7	0	0	0	1	0	0	0	0	19
32	1	0	0	2	1	0	4	0	0	5	0	0	0	0	3	0	0	0	0	16
33	0	0	0	1	2	0	1	0	0	4	0	0	0	0	3	0	0	0	0	11
34	0	1	0	5	3	0	4	0	0	5	0	1	0	2	0	0	0	0	0	21
35	0	0	0	1	3	0	1	0	0	7	0	0	0	0	5	0	0	0	0	17
36	1	1	0	7	4	0	1	0	0	6	0	1	0	0	7	0	0	0	0	28
37	0	1	1	1	2	0	1	0	0	4	0	0	0	0	2	0	0	0	0	12
38	1	1	0	5	4	0	2	0	1	5	0	1	1	2	0	0	0	0	0	23
39	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	3
40	4	0	0	2	1	0	0	0	1	5	0	0	0	0	2	0	0	0	0	15
41	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	6
42	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
43	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
44	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
45	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
46	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
47	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
	43	5	1	98	55	3	49	8	2	66	2	7	1	51	2	393				

1. Shellkof

2. Marmot Offshore

3. Chiniak Offshore

4. Barnabas

5. Twoheaded

6. Alitak Flats

7. Geese Islands

10. Alitak Bay

11. Chiniak Bay

12. Kiliuda Bay

13. Kupreanof-Viekoda

15. Inner Marmot

17. Ugak Bay

19. Marmot-Izhut Bay

20. Uyak Bay

Appendix G.19. Northern rock sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group																		Total
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	17	18	Total		
8	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
9	0	0	0	4	0	0	0	0	0	6	0	0	0	0	2	0	0	12	
10	0	0	0	2	0	0	0	0	0	6	3	0	0	0	1	0	0	12	
11	0	2	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0	8	
12	0	0	0	3	0	0	0	0	1	2	2	1	0	0	0	0	1	10	
13	0	7	0	2	0	0	0	0	2	0	2	0	0	0	0	0	3	16	
14	0	4	0	0	0	0	0	0	3	1	0	0	0	0	1	2	1	11	
15	1	3	0	2	0	0	0	0	7	2	0	0	0	0	0	0	8	23	
16	0	3	0	1	0	0	0	0	7	0	0	1	0	0	0	0	6	18	
17	0	1	0	3	0	0	0	0	5	1	0	0	0	0	0	0	0	10	
18	0	1	1	3	0	0	0	0	2	1	0	0	0	0	0	0	2	11	
19	0	1	0	2	0	0	0	0	5	1	4	0	0	0	1	4	18		
20	0	1	0	5	0	0	0	0	7	0	6	0	0	0	0	0	5	24	
21	0	0	0	0	0	0	0	0	4	2	1	0	0	0	0	0	3	10	
22	0	1	0	1	0	0	0	0	2	0	3	2	0	0	0	0	2	11	
23	0	0	0	2	0	0	0	0	0	2	4	1	0	0	0	0	3	12	
24	0	0	0	7	1	0	0	0	2	1	4	1	0	0	0	0	3	19	
25	0	0	0	2	0	0	0	0	2	1	0	4	0	0	0	0	1	10	
26	0	0	0	6	0	0	0	1	1	1	1	2	0	0	0	0	0	12	
27	0	0	0	5	0	1	0	1	0	4	2	4	1	0	1	0	19		
28	0	0	0	6	0	0	0	0	0	7	1	1	0	0	1	1	17		
29	1	0	0	5	0	0	0	1	1	4	1	5	0	0	0	0	3	21	
30	0	0	0	2	0	0	2	0	1	4	3	2	0	0	0	0	1	15	
31	0	1	0	5	0	0	2	1	0	6	1	6	1	0	2	1	26		
32	0	1	0	6	2	0	3	2	0	2	2	9	0	0	0	0	1	28	
33	0	0	0	5	0	0	1	2	1	7	1	6	0	1	0	1	25		
34	0	1	1	7	0	0	0	0	0	8	2	5	0	0	0	0	1	25	
35	0	0	1	8	4	0	2	1	0	8	1	3	0	0	0	0	0	28	
36	0	0	0	14	2	0	3	0	0	11	2	2	1	0	0	0	0	35	
37	1	0	1	8	0	0	2	3	1	5	3	1	2	0	1	0	28		
38	1	0	0	1	1	0	0	3	1	3	2	0	0	2	2	0	16		
39	0	0	0	5	1	0	0	1	0	1	4	2	0	4	0	3	21		
40	0	0	1	0	2	0	0	1	0	2	1	2	0	3	0	0	12		
41	0	0	1	0	1	1	1	0	0	0	1	0	0	2	1	0	8		
42	0	0	0	5	1	0	1	2	0	0	3	0	0	5	0	1	18		
43	0	1	0	2	0	0	1	2	0	2	3	0	1	2	0	0	14		
44	0	0	1	5	1	0	0	2	0	1	2	0	0	2	2	0	16		
45	0	0	2	2	1	0	0	3	0	0	1	0	0	0	1	0	10		
46	0	0	0	3	1	0	0	5	0	0	1	0	0	0	1	1	12		
47	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	0	7		
48	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	4		
49	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2		
50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
51	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3	
52	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
53	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4	
54	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
59	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	4	28	10	155	18	2	19	39	55	107	73	61	6	21	17	57	672		

1. Shelikof
2. Marmot Offshore
3. Chiniak Offshore
4. Barnabas

5. Twoheaded
6. Alitak Flats
7. Geese Islands
8. Sitskinak Island

10. Alitak Bay
11. Chiniak Bay
12. Kiliuda Bay
13. Kupreanof-Viekoda

14. Uganik Bay
15. Inner Marmot
17. Ugak Bay
18. Southwest Offshore

Appendix G.20. Southern rock sole lengths by area from the 2001 trawl survey of the Kodiak Area.

Length (cm)	Area Group												Total
	1	2	3	4	8	11	12	13	14	15	17	Total	
10	0	0	0	2	0	0	0	0	0	0	0	0	2
12	0	0	0	1	0	0	0	0	0	0	0	0	1
13	1	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	1	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	1	0	0	0	0	1
18	0	1	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	1	0	0	0	0	1
20	0	0	0	1	0	0	0	3	0	0	0	0	4
22	1	1	0	3	0	1	0	1	0	0	0	0	7
24	0	0	0	3	0	0	0	0	0	0	0	0	3
25	0	0	0	5	0	0	0	4	0	0	0	0	9
26	0	1	0	1	0	0	0	2	0	0	0	0	4
27	0	0	0	2	0	0	0	4	0	0	0	0	6
28	0	0	0	0	0	0	0	4	0	0	0	0	4
29	0	3	0	0	0	0	0	1	0	0	0	0	4
30	0	1	0	0	0	0	0	2	0	0	0	0	3
31	0	0	0	2	0	1	1	6	0	0	0	0	10
32	0	1	0	0	0	0	0	7	0	0	0	0	8
33	0	0	0	0	0	0	0	5	0	0	0	0	5
34	0	1	0	0	0	0	1	3	0	0	0	0	5
35	0	1	0	2	0	0	0	6	1	0	0	0	10
36	0	1	0	1	0	1	1	7	0	0	0	0	11
37	0	0	0	1	0	0	2	3	1	0	0	0	7
38	0	1	1	1	0	1	0	1	0	0	0	0	5
39	0	1	0	1	0	0	3	5	0	0	0	0	10
40	0	0	0	0	0	1	2	0	0	0	0	0	3
41	0	1	1	1	0	1	0	0	0	1	0	0	5
42	0	1	0	2	0	0	0	0	0	0	0	0	3
43	0	2	1	0	0	2	0	0	0	0	0	0	5
44	0	0	0	1	0	1	1	0	0	0	0	0	3
45	0	1	0	0	0	0	0	0	0	0	0	0	1
46	0	0	0	0	1	0	0	0	0	0	0	0	1
47	0	0	1	0	0	0	0	0	0	0	0	0	1
48	0	0	0	1	0	0	0	0	0	0	1	0	2
49	0	0	0	1	0	0	1	0	0	0	0	0	2
50	0	0	0	1	0	0	0	0	0	0	0	0	1
	2	18	4	34	1	8	11	68	2	1	1	1	150

1. Shellkof
2. Marmot Offshore
3. Chiniak Offshore
4. Barnabas
8. Sitsinak Island
11. Chiniak Bay
12. Killuda Bay
13. Kupreanof-Viekoda
14. Uganik Bay
15. Inner Marmot Bay
17. Ugak Bay

Appendix G.21. Lengths of miscellaneous rockfishes, Pacific herring, Pacific ocean perch, tomcod, chum salmon, and sand sole taken during the 2001 trawl survey of the Kodiak Area.

Length (cm)	Light Dusky Rockfish	Dark Dusky Rockfish	Northern Rockfish	Redbanded Rockfish	Redstripe Rockfish	Pacific Ocean Perch	Shortspine Thornyhead	Pacific Herring	Pacific Tomcod	Slender Sole	Sand Sole	Yelloweye Rockfish	Shortraker Rockfish	Pacific Sleeper Shark	Chum Salmon
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	3	1	2	2	0	0	13	0	0	0	0	0	0	0	0
34	1	0	4	0	0	0	16	0	0	0	0	0	0	0	0
35	1	0	1	2	0	0	14	0	0	0	0	0	0	0	0
36	0	0	3	1	0	0	11	0	0	0	0	0	0	0	0
37	0	0	2	3	0	0	10	0	0	0	0	0	0	0	0
38	2	0	2	1	0	0	3	0	0	0	0	0	0	0	0
39	2	0	2	1	0	0	2	0	0	0	0	0	0	0	0
40	1	0	4	1	0	0	1	0	0	0	0	0	0	0	0
41	4	0	0	4	0	0	3	0	0	0	0	0	0	0	0
42	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0
43	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix H. Population estimates of Tanner crab abundance in the South Peninsula District by station, area, and total District, 2001.

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
SANAK ISLAND															
113	190	276,838	0	276,838	263,167	13,671	0	0	0	0	0	0	0	276,838	553,676
125	191	290,509	27,342	317,851	239,243	10,253	0	0	0	0	0	0	0	249,496	567,347
126	189	248,835	7,428	256,263	226,551	7,428	3,714	0	0	0	0	0	0	237,693	493,956
137	195	34,178	15,190	49,368	15,190	0	18,988	11,393	0	0	0	0	0	45,570	94,938
138A	194	30,760	10,253	41,013	16,405	0	0	8,203	0	0	0	0	0	24,608	65,621
138B	192	15,498	816	16,314	22,840	0	1,631	4,079	0	0	0	0	0	28,550	44,864
138C	193	17,651	70,603	88,254	7,565	25,215	57,995	93,297	5,043	0	0	5,043	189,116	277,369	
Population Estimate		914,269	131,632	1,045,901	790,961	56,567	82,328	116,972	5,043	0	0	5,043	1,051,871	2,097,772	
MORZHVOI BAY															
87D	199	1,097	3,291	4,388	2,194	1,097	3,291	7,679	2,194	1,097	0	3,291	17,553	21,941	
MOB	205	10,279	0	10,279	22,026	0	0	0	0	0	0	0	0	22,026	32,304
MOD	206	44,978	0	44,978	52,831	6,425	714	0	0	0	0	0	0	59,970	104,948
MOF	207	91,140	0	91,140	79,748	18,038	2,848	949	0	0	0	0	0	101,583	192,723
MOG	204	54,114	949	55,064	36,076	9,494	1,899	2,848	1,899	0	0	1,899	52,216	107,279	
MOH	202	60,289	2,233	62,522	63,266	13,398	4,466	5,210	1,489	0	0	1,489	87,829	150,351	
MOI	203	57,912	949	58,861	44,621	22,785	5,696	2,848	0	949	0	949	76,899	135,761	
MOK	201	26,583	17,089	43,671	22,785	50,317	38,924	43,671	18,988	18,038	949	37,975	193,673	237,344	
MOL	188	131,726	14,241	145,966	58,149	115,112	23,734	18,988	27,295	4,747	2,373	34,415	250,398	396,364	
87AX	198	6,329	69,621	75,950	4,219	2,110	4,219	42,194	23,207	50,633	2,110	75,950	128,693	204,643	
MOOX	200	417,239	223,521	640,760	139,080	690,431	134,113	74,507	34,770	24,836	0	59,606	1,097,736	1,738,495	
MORX	196	168,837	0	168,837	114,290	25,975	5,195	10,390	0	10,390	2,597	12,987	168,837	337,674	
MOSX	197	16,709	0	16,709	25,064	5,013	1,671	28,405	73,520	3,342	3,342	80,203	140,356	157,065	
Population Estimate		1,087,232	331,894	1,419,126	664,349	960,195	226,770	237,689	183,362	114,032	11,371	308,765	2,397,768	3,816,894	
COLD BAY/BELKOFSKI															
BEE	220	18,988	4,747	23,734	15,427	3,560	5,934	8,307	1,187	1,187	0	2,373	35,602	59,336	
BEF	221	8,348	0	8,348	12,523	0	0	0	0	696	0	696	13,218	21,567	
BEG	217	34,171	0	34,171	21,582	0	0	0	0	0	0	0	21,582	55,753	
COB	211	232,055	0	232,055	247,026	9,357	1,871	0	1,871	0	0	1,871	260,126	492,180	
COC	212	68,440	0	68,440	51,542	0	0	0	0	0	0	0	51,542	119,982	
COE	213	152,052	3,509	155,561	121,642	32,750	8,187	1,170	2,339	0	0	2,339	166,087	321,648	
COF	214	179,557	2,181	181,738	149,752	3,635	2,181	3,635	3,635	0	727	4,362	163,564	345,301	
COH	216	13,420	433	13,853	10,823	5,195	0	0	0	0	0	0	16,018	29,871	
COM	208	10,937	0	10,937	7,291	10,025	3,646	14,582	10,937	911	0	11,848	47,393	58,330	
COO	209	45,698	8,941	54,638	13,908	59,606	95,369	79,474	45,698	5,961	0	51,658	300,015	354,653	
156A	222	29,347	39,129	68,477	33,260	0	11,739	25,434	7,826	3,913	0	11,739	82,172	150,648	
157A	223	15,829	1,862	17,692	13,036	0	1,862	0	0	0	0	0	14,898	32,590	
BEBX	218	28,193	0	28,193	26,783	0	0	0	0	0	0	0	26,783	54,976	

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Appendix H. (Page 2 of 3)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
BECX	219	100,636	0	100,636	110,375	9,739	3,246	1,623	0	0	0	0	0	124,983	225,619
COGA	210	45,374	4,827	50,201	34,755	7,723	4,344	11,102	13,033	1,931	2,414	17,377	75,302	125,503	
COGB	215	7,447	1,208	8,655	3,824	1,409	0	2,013	3,019	403	403	3,824	11,070	19,724	
Population Estimate		990,492	66,837	1,057,329	873,549	142,999	138,379	147,340	89,545	15,002	3,544	108,091	1,410,358	2,467,687	
PAVLOF BAY/VOLCANO															
228	163	4,142	0	4,142	8,285	0	0	4,142	8,285	0	0	8,285	20,712	24,854	
245	162	12,947	4,316	17,263	4,316	0	8,631	34,525	0	0	0	0	47,472	64,735	
PAH	174	76,636	946	77,582	55,821	17,030	1,892	0	0	0	0	0	74,743	152,325	
PAP	179	31,707	2,046	33,752	16,365	14,319	11,251	8,182	0	0	0	0	50,117	83,869	
PAU	172	18,987	4,219	23,207	11,603	9,494	12,658	4,219	2,110	1,055	0	3,165	41,140	64,347	
PAV	165	10,937	1,823	12,760	7,291	3,646	1,823	1,823	0	911	0	911	15,494	28,253	
VOA	171	13,639	1,240	14,879	1,240	3,720	1,240	2,480	2,480	0	0	2,480	11,159	26,038	
VOD	166	14,728	41,423	56,151	8,285	6,444	5,523	14,728	2,762	7,364	0	10,126	45,105	101,257	
VOG	170	6,805	3,403	10,208	6,805	3,403	9,073	0	2,268	0	0	2,268	21,550	31,757	
VOH	169	12,520	8,667	21,187	9,630	3,852	5,778	9,630	0	4,815	0	4,815	33,707	54,894	
VOL	167	6,326	5,751	12,076	0	4,025	4,025	2,875	1,725	1,725	0	3,450	14,376	26,452	
VON	182	9,919	3,306	13,225	6,613	22,042	29,757	14,328	13,225	1,102	0	14,328	87,067	100,293	
VOP	187	21,700	4,069	25,769	9,494	42,044	25,769	8,138	0	0	0	0	85,444	111,213	
VOQ	184	21,849	0	21,849	14,801	0	705	705	705	0	0	705	16,916	38,765	
VOR	185	8,187	0	8,187	7,018	7,018	1,170	1,170	2,339	0	0	2,339	18,714	26,901	
PABX	177	6,000	0	6,000	8,000	0	0	0	0	0	0	0	8,000	14,000	
PAEX	176	3,682	0	3,682	3,682	0	0	0	0	0	0	0	3,682	7,364	
PAIX	175	27,148	0	27,148	20,361	6,787	0	0	0	0	0	0	27,148	54,295	
PALX	178	160,339	29,536	189,875	61,182	54,853	18,987	4,219	0	0	0	0	139,242	329,117	
PAOA	180	17,268	893	18,161	16,077	11,909	5,954	2,382	0	0	0	0	36,322	54,483	
PARA	173	17,736	3,378	21,114	24,492	4,223	5,067	3,378	0	845	0	845	38,005	59,119	
PARB	164	40,416	65,287	105,702	5,181	50,778	47,670	19,690	3,109	2,073	0	5,181	128,501	234,203	
VOBX	168	27,178	11,648	38,826	11,648	25,237	9,706	19,413	3,883	3,883	0	7,765	73,769	112,594	
VOFB	181	6,021	10,322	16,343	9,461	860	5,161	6,881	2,580	2,580	0	5,161	27,524	43,867	
VOLX	183	18,977	8,626	27,602	13,801	1,725	3,450	0	0	0	0	0	18,977	46,579	
VOMB	186	15,758	1,501	17,259	12,757	1,501	0	1,501	1,501	750	0	2,251	18,009	35,268	
Population Estimate		611,552	212,400	823,952	354,209	294,910	215,290	164,409	46,972	27,103	0	74,075	1,102,893	1,926,845	
BEAVER/BALBOA BAY/UNGA															
278	230	7,910	15,820	23,731	15,820	3,955	7,910	7,910	0	0	0	0	35,596	59,326	
348	232	189,875	44,304	234,179	272,154	18,987	6,329	0	0	0	0	0	297,471	531,650	
BAA	224	231,268	1,595	232,863	266,357	3,190	0	0	0	0	0	0	269,547	502,409	
BAC	225	23,168	0	23,168	32,883	1,495	0	0	0	0	0	0	34,378	57,546	
BAD	235	21,632	0	21,632	22,092	3,682	0	0	0	0	0	0	25,774	47,406	
BAE	236	44,279	3,220	47,499	36,228	805	0	0	0	0	0	0	37,033	84,532	

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Appendix H. (Page 3 of 3)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165	<165	>165			
BAF	226	1,440	0	1,440	0	0	0	0	0	0	0	0	0	0	1,440
BVA	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BVB	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BVC	229	2,506	0	2,506	1,671	835	0	0	0	0	0	0	0	2,506	5,013
311A	237	50,695	8,221	58,916	19,867	6,851	2,055	685	0	0	0	0	0	29,458	88,374
311B	238	23,136	0	23,136	26,154	0	0	1,006	0	0	0	0	0	27,160	50,296
312A	231	1,975	0	1,975	0	0	0	0	0	0	0	0	0	0	1,975
329B	234	94,938	2,373	97,311	78,323	18,988	14,241	7,120	0	0	0	0	0	118,672	215,983
329C	239	102,849	3,165	106,014	85,444	6,329	1,582	0	0	0	0	0	0	93,355	199,369
Population Estimate		795,671	78,698	874,369	856,993	65,117	32,117	16,721	0	0	0	0	0	970,948	1,845,317
STEPOVAK BAY															
STA	252	97,611	0	97,611	125,500	0	0	0	0	0	0	0	0	125,500	223,111
STB	253	61,823	0	61,823	66,001	835	0	0	0	0	0	0	0	66,836	128,659
STD	255	86,610	0	86,610	60,426	0	0	0	0	0	0	0	0	60,426	147,036
STE	254	31,825	0	31,825	27,524	2,580	0	0	0	0	0	0	0	30,105	61,930
368A	233	201,268	0	201,268	186,891	25,877	0	0	0	0	0	0	0	212,769	414,036
Population Estimate		479,137	0	479,137	466,342	29,292	0	0	0	0	0	0	0	495,634	974,771
WEST NAGAI															
301	246	11,393	0	11,393	7,595	3,798	3,798	7,595	0	0	0	0	0	22,785	34,178
318	245	14,241	0	14,241	14,241	4,747	4,747	0	0	0	0	0	0	23,734	37,975
334	242	21,700	5,425	27,125	16,275	0	10,850	0	0	0	0	0	0	27,125	54,250
335	243	7,595	0	7,595	7,595	0	0	0	0	0	0	0	0	7,595	15,190
337	244	0	0	0	5,425	5,425	5,425	0	0	0	0	0	0	16,275	16,275
353	240	76,254	4,766	81,020	66,722	4,766	0	0	0	0	0	0	0	71,488	152,508
354	241	70,525	10,850	81,375	54,250	37,975	16,275	5,425	0	0	0	0	0	113,925	195,300
371	251	103,432	0	103,432	92,732	14,266	0	0	0	0	0	0	0	106,998	210,430
393	250	31,512	7,003	38,514	17,506	10,504	3,501	10,504	0	0	0	0	0	42,016	80,530
332B	247	62,659	18,988	81,646	24,684	15,190	7,595	1,899	0	0	0	0	0	49,368	131,014
373A	248	0	1,849	1,849	5,546	0	0	0	0	0	0	0	0	5,546	7,394
373B	249	109,912	20,892	130,804	37,243	29,976	13,625	8,175	908	0	0	908	0	89,928	220,732
Population Estimate		509,223	69,773	578,996	349,814	126,647	65,816	33,598	908	0	0	908	0	576,783	1,155,779
Total		5,387,576	891,234	6,278,810	4,356,217	1,675,727	760,700	716,729	325,830	156,137	14,915	496,882	8,006,255	14,285,065	

Appendix I. Population estimates of Tanner crab abundance in the Chignik District by station, area, and total District, 2001.

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>165			
IVANOF														
4000	258	41,226	19,565	60,790	12,577	81,753	15,372	6,289	0	4,891	0	4,891	120,882	181,672
4007	257	254,756	23,637	278,393	207,482	47,274	7,879	5,253	0	0	0	0	267,888	546,281
4008	256	78,280	29,821	108,101	31,685	72,689	33,549	26,093	1,864	7,455	0	9,319	173,335	281,436
400X	259	143,956	21,409	165,364	36,420	109,259	10,827	5,906	984	2,953	0	3,937	166,349	331,713
4024	262	116,355	2,909	119,264	136,718	11,636	5,818	0	0	0	0	0	154,171	273,435
4900	260	77,722	0	77,722	113,474	3,109	0	0	0	0	0	0	116,583	194,305
4915	261	70,916	0	70,916	82,354	0	0	0	0	0	0	0	82,354	153,270
Population Estimate		783,211	97,341	880,552	620,710	325,720	73,445	43,541	2,848	15,299	0	18,147	1,081,563	1,962,115
MITROFANIA														
4035	263	194,335	12,146	206,481	185,225	33,401	15,182	12,146	0	0	0	0	245,955	452,436
4048	268	38,257	933	39,190	38,257	20,528	8,398	15,863	1,866	2,799	0	4,666	87,711	126,902
4063	267	96,223	5,064	101,287	83,562	136,737	174,720	48,111	7,597	0	0	7,597	450,727	552,014
4064	266	21,101	308,081	329,182	42,203	67,525	109,727	42,203	33,762	33,762	8,441	75,965	337,623	666,806
4065	265	24,807	0	24,807	24,807	0	0	0	0	0	0	0	24,807	49,614
4094	264	243,040	0	243,040	212,660	0	0	0	0	0	0	0	212,660	455,700
Population Estimate		617,763	326,224	943,987	586,714	258,191	308,027	118,323	43,225	36,561	8,441	88,227	1,359,482	2,303,469
CHIGNIK BAY														
4256	279	28,355	3,544	31,899	16,540	30,718	10,633	1,181	0	0	0	0	59,072	90,971
4262	278	1,604,444	208,863	1,813,306	464,007	2,385,305	557,758	107,991	15,427	30,855	0	46,282	3,561,343	5,374,649
4264	272	43,691	5,350	49,041	51,716	16,941	7,133	12,483	892	0	0	892	89,165	138,206
4265	270	33,714	0	33,714	38,112	0	0	293	293	0	0	293	38,698	72,412
4266	280	117,297	17,377	134,675	96,444	82,542	27,804	2,607	0	0	0	0	209,397	344,072
4267	277	83,545	13,291	96,836	55,064	151,900	37,975	3,798	0	1,899	0	1,899	250,635	347,471
4270	274	9,096	21,223	30,319	4,548	8,338	38,657	53,059	26,529	1,516	0	28,045	132,647	162,966
4271	273	9,114	57,874	66,988	911	4,101	15,950	44,203	31,443	10,025	1,367	42,836	108,001	174,989
4272	281	18,795	0	18,795	21,144	1,566	1,566	1,566	783	0	0	783	26,626	45,421
4274	276	33,756	6,329	40,085	18,987	3,165	3,165	2,110	0	1,055	0	1,055	28,481	68,566
4277	282	42,722	8,307	51,029	24,921	8,307	8,307	8,307	0	1,187	1,187	2,373	52,216	103,245
4278	275	25,769	10,850	36,619	13,563	17,631	12,206	4,069	0	0	0	0	47,469	84,088
4282	283	6,646	33,228	39,874	7,595	6,646	19,937	16,139	2,848	949	0	3,798	54,114	93,988
4286	285	7,384	18,987	26,372	6,329	18,987	30,591	8,439	0	1,055	0	1,055	65,401	91,773
4287	284	92,082	81,120	173,201	15,347	72,350	46,041	8,770	0	0	0	0	142,508	315,709
4312	269	6,471	1,078	7,549	0	2,157	17,256	131,576	138,047	0	0	138,047	289,035	296,585
4964	271	69,503	424	69,927	86,879	9,324	6,781	9,747	1,271	0	0	1,271	114,002	183,930
Population Estimate		2,232,384	487,845	2,720,229	922,107	2,819,978	841,760	416,338	217,533	48,541	2,554	268,628	5,268,811	7,989,040

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Appendix I. (Page 2 of 2)

Station	Tow #	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit (mm)		Total Legal	Total Males	Total Crabs
		Juvenile	Adult	Total	<70	70-91	92-114	>114	<165	>165					
KUJULIK BAY															
4296	286	35,805	0	35,805	33,201	0	0	0	0	0	0	0	0	33,201	69,006
4298	288	37,428	0	37,428	63,798	0	0	0	0	0	0	0	0	63,798	101,226
4301	289	11,393	0	11,393	10,443	0	949	0	0	0	0	0	0	11,393	22,785
4302	290	54,007	0	54,007	52,144	0	931	0	931	0	0	931	54,007	108,013	
4308	291	47,089	0	47,089	53,925	760	760	0	0	0	0	0	55,444	102,533	
Population Estimate		188,570	0	188,570	213,511	760	2,640	0	931	0	0	931	217,842	406,412	
Total		3,821,928	911,410	4,733,338	2,343,042	3,404,649	1,225,872	578,202	264,537	100,401	10,995	375,933	7,927,698	12,661,036	

Appendix J. Population estimates of red king crab abundance in the Alaska Peninsula by station, area, and total District, 2001.

Station	Tow #	Females			Sublegal Males			Recruit	Post Recruit	Total Legal	Total Males	Total Crabs	
		Juv.	Adult	Total	Four	Three	Two	One					
SANAK ISLAND													
113	190	0	0	0	0	0	0	0	0	0	0	0	0
125	191	0	0	0	0	0	0	0	0	0	0	0	0
126	189	0	0	0	0	0	0	0	0	0	0	0	0
137	195	0	0	0	0	0	0	0	0	0	0	0	0
138A	194	0	0	0	0	0	0	0	0	0	0	0	0
138B	192	0	0	0	0	0	0	0	0	0	0	0	0
138C	193	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		0	0	0	0	0	0	0	0	0	0	0	0
MORZHVOI BAY													
87D	199	0	0	0	0	0	0	0	0	0	0	0	0
MOB	205	0	0	0	0	0	0	0	0	0	0	0	0
MOD	206	714	2142	2856	0	0	0	0	0	714	714	714	3570
MOF	207	0	0	0	0	0	0	0	0	0	0	0	0
MOG	204	0	0	0	0	0	0	0	0	0	0	0	0
MOH	202	0	0	0	0	0	0	0	0	0	0	0	0
MOI	203	0	0	0	0	0	0	0	0	0	0	0	0
MOK	201	0	0	0	0	0	0	0	0	0	0	0	0
MOL	188	0	0	0	0	0	0	0	0	0	0	0	0
87AX	198	0	0	0	0	0	0	0	0	0	0	0	0
MOOX	200	0	0	0	0	0	0	0	0	0	0	0	0
MORX	196	0	0	0	0	0	0	0	0	0	0	0	0
MOSX	197	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		714	2142	2856	0	0	0	0	0	714	714	714	3570
COLD BAY/BELKOFSKI													
BEE	220	0	0	0	0	0	0	0	0	0	0	0	0
BEF	221	0	0	0	0	0	0	0	0	0	0	0	0
BEG	217	0	0	0	0	0	0	0	0	0	0	0	0
COB	211	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix J. (Page 2 of 4)

Station	Tow #	Females			Sublegal Males				Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two	One					
COC	212	0	0	0	0	0	0	0	0	0	0	0	0
COE	213	1170	3509	4679	0	1170	0	0	0	2339	2339	3509	8187
COF	214	0	727	727	0	0	727	0	0	2908	2908	3635	4362
COH	216	0	0	0	0	0	0	0	0	0	0	0	0
COM	208	0	0	0	0	0	0	0	0	911	911	911	911
COO	209	0	0	0	0	0	0	0	0	0	0	0	0
156A	222	0	0	0	0	0	0	0	0	0	0	0	0
157A	223	0	0	0	0	0	0	0	0	0	0	0	0
BEBX	218	0	0	0	1410	0	0	0	0	0	0	1410	1410
BECX	219	0	0	0	0	0	0	0	0	0	0	0	0
COGA	210	0	0	0	0	0	0	0	0	0	0	0	0
COGB	215	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		1170	4236	5406	1410	1170	727	0	0	6158	6158	9465	14871
PAVLOF BAY													
228	163	0	0	0	0	0	0	0	0	0	0	0	0
245	162	0	0	0	0	0	0	0	0	0	0	0	0
PAH	174	0	0	0	0	0	0	0	0	0	0	0	0
PAP	179	0	0	0	0	0	0	3068	0	10228	10228	13296	13296
PAU	172	0	0	0	0	0	0	0	0	0	0	0	0
PAV	165	0	0	0	0	0	0	0	0	0	0	0	0
VOA	171	0	0	0	0	0	0	0	0	0	0	0	0
VOD	166	0	0	0	0	0	0	0	0	0	0	0	0
VOG	170	0	0	0	0	0	0	0	0	0	0	0	0
VOH	169	0	0	0	0	0	0	0	0	0	0	0	0
VOL	167	0	0	0	0	0	0	0	0	0	0	0	0
VON	182	0	0	0	0	0	0	0	0	0	0	0	0
VOP	187	0	0	0	0	0	0	0	0	0	0	0	0
VOQ	184	0	0	0	0	0	0	0	0	0	0	0	0
VOR	185	0	0	0	0	0	0	0	0	0	0	0	0
PABX	177	0	0	0	2000	0	0	0	0	0	0	2000	2000
PAEX	176	7364	0	7364	0	0	0	0	0	0	0	0	7364

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Appendix J. (Page 3 of 4)

Station	Tow #	Females			Sublegal Males				Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two	One					
PAIX	175	0	0	0	0	0	0	0	0	0	0	0	0
PALX	178	0	0	0	0	2110	0	0	0	0	0	2110	2110
PAOA	180	0	0	0	0	0	0	0	0	298	298	298	298
PARA	173	0	0	0	0	0	0	0	0	0	0	0	0
PARB	164	0	0	0	0	0	0	0	0	0	0	0	0
VOBX	168	0	0	0	0	0	0	0	0	0	0	0	0
VOFB	181	0	0	0	0	0	0	0	0	0	0	0	0
VOLX	183	0	0	0	0	0	0	0	0	0	0	0	0
VOMB	186	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		7364	0	7364	2000	2110	0	3068	0	10526	10526	17704	25068
BEAVER/BALBOA BAY/UNGA													
278	230	0	0	0	0	0	0	0	0	0	0	0	0
348	232	0	0	0	0	0	0	0	0	0	0	0	0
BAA	224	0	0	0	0	0	0	0	0	0	0	0	0
BAC	225	0	0	0	0	0	0	0	0	0	0	0	0
BAD	235	0	0	0	0	0	0	0	0	0	0	0	0
BAE	236	0	0	0	0	0	0	0	0	0	0	0	0
BAF	226	0	0	0	0	0	0	0	0	0	0	0	0
BVA	228	0	0	0	0	0	0	0	0	0	0	0	0
BVB	227	0	0	0	0	0	0	0	0	0	0	0	0
BVC	229	0	0	0	0	0	0	0	0	0	0	0	0
311A	237	0	0	0	0	0	0	0	0	0	0	0	0
311B	238	0	0	0	0	0	0	0	0	0	0	0	0
312A	231	0	0	0	0	0	0	0	0	0	0	0	0
329B	234	0	0	0	0	0	0	0	0	0	0	0	0
329C	239	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		0	0	0	0	0	0	0	0	0	0	0	0
STEPOVAK BAY													
STA	252	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix J. (Page 4 of 4)

Station	Tow #	Females			Sublegal Males				Recruit	Post Recruit	Total Legal	Total Males	Total Crabs
		Juv.	Adult	Total	Four	Three	Two	One					
STB	253	0	0	0	0	0	0	0	0	0	0	0	0
STD	255	0	0	0	0	0	0	0	0	0	0	0	0
STE	254	0	0	0	0	0	0	0	0	0	0	0	0
368A	233	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		0	0	0	0	0	0	0	0	0	0	0	0
WEST NAGAI													
301	246	0	0	0	0	0	0	0	0	0	0	0	0
318	245	0	0	0	0	0	0	0	0	0	0	0	0
334	242	0	0	0	0	0	0	0	0	0	0	0	0
335	243	0	0	0	0	0	0	0	0	0	0	0	0
337	244	0	0	0	0	0	0	0	0	0	0	0	0
353	240	0	0	0	0	0	0	0	0	0	0	0	0
354	241	0	0	0	0	0	0	0	0	0	0	0	0
371	251	0	0	0	0	0	0	0	0	0	0	0	0
393	250	0	0	0	0	0	0	0	0	0	0	0	0
332B	247	0	0	0	0	0	0	0	0	0	0	0	0
373A	248	0	0	0	0	0	0	0	0	0	0	0	0
373B	249	0	0	0	0	0	0	0	0	0	0	0	0
Population Estimate		0	0	0	0	0	0	0	0	0	0	0	0
Total		9248	6378	15626	3410	3280	727	3068	0	17398	17398	27883	43509

Appendix K.1. Arrowtooth flounder lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64		
12	0	0	0	0	0	1	0	1	0	0	0	0	2
13	0	0	0	0	7	2	1	0	1	0	1	1	12
14	0	0	0	0	5	1	0	2	0	0	2	10	
15	0	0	0	0	10	3	0	1	0	0	2	16	
16	0	0	0	1	20	1	1	0	0	1	1	25	
17	0	0	0	0	15	5	1	3	0	1	1	26	
18	2	0	0	2	18	7	3	11	1	5	1	50	
19	4	1	0	3	28	9	13	20	0	10	0	88	
20	13	5	1	7	42	24	13	37	3	23	4	172	
21	14	7	1	10	42	26	23	25	7	32	4	191	
22	13	12	7	33	45	22	52	29	1	68	4	287	
23	15	6	15	45	49	18	43	25	4	38	18	276	21 Sanak Island
24	8	16	16	38	53	15	58	17	2	58	26	307	22 Morzhovol Bay
25	6	11	22	44	38	3	45	10	2	32	25	238	23 Cold Bay/Belkofski
26	3	11	37	51	53	9	25	17	2	30	28	266	24 Pavlof/Volcano
27	14	13	22	18	29	3	12	15	1	19	14	160	25 Beaver/Balboa/Unga
28	13	12	13	41	35	4	12	8	5	17	14	174	26 Stepovak Bay
29	14	13	12	37	27	6	20	22	5	12	6	174	27 West Nagai
30	22	27	8	59	30	3	26	15	9	33	4	236	81 Ivanof Bay
31	19	31	9	44	36	5	39	5	6	28	13	235	62 Mitrofania Bay
32	23	34	5	60	34	5	33	12	8	35	9	258	63 Chignik Bay
33	16	36	8	39	30	2	26	5	6	33	8	209	64 Kujulik Bay
34	22	31	7	40	26	4	14	7	7	31	10	189	
35	19	28	2	32	18	6	14	6	7	31	8	171	
36	17	32	0	37	27	2	30	8	14	31	9	207	
37	11	44	0	20	18	6	30	5	5	43	7	189	
38	14	29	1	23	13	6	17	10	7	41	8	169	
39	8	16	0	28	8	2	10	4	5	25	8	114	
40	8	16	1	12	15	3	17	3	2	23	9	109	
41	4	10	0	9	12	1	12	2	2	16	8	76	
42	9	9	0	7	12	4	11	3	5	18	4	82	
43	5	10	0	4	10	2	13	0	6	14	2	66	
44	6	8	0	3	11	3	13	2	8	7	2	63	
45	3	8	1	5	11	4	10	1	2	7	3	55	
46	14	16	0	10	11	5	7	3	7	4	2	79	
47	0	10	1	14	10	1	7	1	7	8	1	60	
48	5	12	1	9	11	7	8	1	9	12	1	76	
49	11	12	1	3	10	6	8	5	3	8	3	70	
50	3	7	0	5	2	0	6	4	6	5	4	42	
51	2	4	0	5	6	0	3	4	3	9	0	36	
52	1	7	0	6	7	3	1	2	6	7	0	40	
53	0	5	0	5	1	2	6	1	7	5	0	32	
54	5	6	0	1	7	5	5	2	3	6	1	41	
55	2	2	0	3	3	1	3	0	1	6	0	21	
56	0	3	0	4	4	1	3	0	0	9	0	24	
57	1	6	2	3	1	4	1	0	4	6	2	30	
58	0	6	0	2	1	1	2	2	3	5	2	24	
59	1	0	1	2	3	1	2	1	4	2	1	18	
60	0	4	3	3	2	0	0	0	2	5	1	20	
61	3	7	0	0	0	0	0	0	0	3	0	13	
62	1	3	1	3	2	0	0	1	0	4	0	15	
63	1	5	1	1	2	0	0	0	2	3	0	15	
64	0	2	1	2	2	0	1	0	0	2	0	10	
65	0	2	0	2	1	0	2	0	0	3	0	10	
66	1	1	0	2	4	0	4	0	4	6	0	22	
67	3	3	0	1	3	0	1	1	0	5	1	18	
68	4	3	0	5	2	0	1	0	0	6	1	22	
69	1	2	0	2	1	1	0	0	0	3	0	10	

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Appendix K.1. (Page 2 of 2)

Length (cm)	Area Group											Total
	21	22	23	24	25	26	27	61	62	63	64	
70	3	3	1	0	0	1	0	0	0	3	0	11
71	0	0	0	2	1	1	1	1	0	3	0	9
72	0	3	0	0	0	1	0	1	0	3	1	9
73	4	0	0	0	1	0	0	0	0	2	0	7
74	1	0	0	0	0	0	1	0	0	0	0	2
75	2	1	0	0	1	1	1	1	0	0	0	7
76	1	0	0	1	1	0	1	0	0	1	0	5
77	0	1	0	0	1	2	0	0	1	5	0	10
78	0	0	0	0	0	1	1	0	0	0	1	3
79	1	0	0	0	4	1	0	2	1	0	1	10
80	0	0	0	0	0	0	0	0	0	1	0	1
81	0	0	0	0	0	0	0	0	0	2	0	2
83	0	1	0	0	1	0	0	0	0	0	0	2
84	1	0	0	0	0	0	0	0	0	1	0	2
85	0	0	0	0	0	1	0	0	0	0	0	1
	397	613	201	848	933	264	713	364	206	916	286	5741

- 21 Sanak Island
- 22 Morzhovoi Bay
- 23 Cold Bay/Belkofski
- 24 Pavlof/Volcano
- 25 Beaver/Balboa/Unga
- 26 Stepovak Bay
- 27 West Nagai
- 61 Ivanof Bay
- 62 Mitrofanla Bay
- 63 Chignik Bay
- 64 Kujulik Bay

Appendix K.2. Yellowfin sole lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group										Total
	22	23	24	25	26	27	61	63	64		
11	0	0	2	0	0	0	0	0	0	0	2
12	0	0	1	2	0	0	0	0	0	0	3
13	0	0	2	1	0	0	0	0	0	0	3
14	0	0	0	2	0	0	0	0	0	0	2
15	0	0	2	2	0	0	0	0	0	0	4
16	0	0	5	0	0	0	0	0	0	1	6
17	0	0	5	0	0	0	0	0	0	2	7
18	0	0	10	0	0	6	0	0	4	20	
19	0	0	7	1	0	8	0	0	0	16	
20	0	1	4	0	0	19	0	0	2	26	
21	0	4	1	3	0	13	4	0	4	29	
22	0	2	3	3	0	11	3	0	4	26	
23	0	6	7	5	0	11	7	0	9	45	
24	0	6	13	4	0	5	4	1	4	37	
25	0	18	20	9	0	3	3	3	4	61	
26	0	25	24	11	0	3	4	1	0	68	
27	1	24	18	13	0	1	2	0	0	59	
28	6	34	30	15	0	4	6	1	0	96	
29	3	64	62	13	0	3	1	4	0	150	
30	7	73	57	24	0	6	3	0	0	170	
31	9	90	75	24	0	11	13	1	1	224	
32	21	87	113	34	0	8	12	2	2	279	
33	25	106	94	24	1	8	11	12	1	282	
34	30	107	97	30	3	14	9	18	5	313	
35	34	66	86	35	2	13	15	10	1	262	
36	35	84	65	34	1	14	13	8	2	256	
37	31	44	49	27	4	8	11	11	1	186	
38	42	47	42	27	7	10	5	8	1	189	
39	35	45	29	19	8	5	8	4	1	154	
40	37	24	10	16	5	1	4	9	0	106	
41	18	16	6	9	3	2	3	3	0	60	
42	20	4	4	4	1	0	2	7	1	43	
>43	19	1	2	1	1	0	5	5	0	34	
	373	979	945	392	36	187	148	108	50	3218	

Appendix K.3. Pacific halibut lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64		
<15	0	0	0	1	0	0	0	0	0	0	4	5	
16	0	0	0	0	1	0	0	0	0	0	2	3	
18	0	0	0	0	0	0	0	0	0	0	4	4	
19	0	0	0	0	0	0	0	0	0	0	6	6	
20	0	0	0	0	0	0	0	0	0	0	10	10	
21	0	0	0	0	0	0	0	0	0	0	16	16	
22	0	0	0	0	0	0	0	0	0	0	18	18	
23	0	0	0	0	0	0	0	0	0	0	8	8	
24	0	0	0	0	0	0	1	0	0	0	4	5	
25	0	0	0	1	0	0	1	0	0	0	0	2	
26	0	0	0	0	0	0	0	0	1	0	6	7	
27	0	0	0	0	0	0	0	0	0	0	3	3	
28	0	0	0	1	0	0	1	0	0	0	3	5	
29	0	0	0	0	0	0	0	0	0	0	2	3	
31	0	0	0	0	0	0	0	0	0	0	1	1	
32	0	0	0	1	0	0	1	0	0	0	0	2	
33	0	0	0	1	0	0	0	0	0	0	0	1	
35	0	0	0	0	0	0	0	2	0	0	0	2	
36	0	0	0	1	0	0	0	0	0	0	0	1	
37	0	0	0	1	0	0	0	0	0	0	1	2	
38	0	0	0	2	1	0	0	0	0	0	0	1	4
39	0	0	0	2	0	0	0	0	0	0	0	1	3
40	0	0	0	3	0	0	0	0	0	0	0	3	8
41	0	0	0	2	1	0	1	0	0	0	0	4	
42	0	0	0	0	1	0	0	0	0	0	0	1	
44	0	0	0	0	2	0	0	0	0	0	0	1	3
45	0	0	0	2	0	0	0	0	0	0	0	2	
46	0	0	0	0	1	0	0	0	0	0	0	1	
47	0	0	1	0	1	0	1	0	0	0	1	1	5
48	0	0	0	1	2	0	0	0	0	0	1	0	4
50	0	0	1	2	3	0	0	0	0	0	2	2	10
51	0	0	0	0	2	0	0	1	0	0	0	0	3
52	0	0	1	1	2	0	2	0	0	0	1	0	7
53	0	0	0	1	1	1	0	0	0	0	0	1	3
54	0	0	1	1	1	0	1	3	0	0	0	2	9
55	0	0	0	3	0	0	1	1	0	0	0	0	5
56	0	1	0	0	1	0	2	0	0	0	0	2	6
57	0	3	3	0	2	0	0	0	0	0	1	3	12
58	0	0	0	1	2	0	0	1	0	0	0	2	6
59	0	0	0	0	1	0	0	0	0	0	0	0	1
60	1	2	0	1	1	0	0	0	1	1	1	2	9
61	1	0	1	1	1	0	1	1	0	0	1	7	
62	0	0	0	0	0	1	0	1	0	0	1	0	3
63	0	2	1	0	1	0	1	0	0	0	1	3	9
64	1	0	0	3	0	2	0	1	1	1	1	1	10
65	0	1	0	3	3	1	1	0	0	0	0	1	10
66	0	0	0	2	0	0	0	0	0	0	0	0	2
67	0	1	0	3	0	0	3	2	0	1	1	1	11
68	1	1	0	1	1	1	0	0	0	0	1	0	6
69	0	3	0	1	0	1	0	0	0	0	0	0	5
70	0	1	1	0	1	0	2	1	0	0	0	0	6
71	1	1	0	0	0	0	2	0	0	0	0	0	4
72	0	0	0	2	1	1	2	1	0	1	0	0	8
73	0	0	1	1	0	2	0	0	0	0	1	0	5
74	0	1	1	0	1	0	1	0	0	1	0	0	5
75	0	0	0	1	1	0	1	0	1	1	0	5	
76	0	2	1	1	0	0	0	0	0	1	0	0	5
77	0	2	0	0	0	0	1	3	0	2	0	0	8
78	1	0	0	1	0	0	2	3	0	1	0	0	8
79	1	2	1	2	0	0	1	1	0	0	0	0	8
80	0	4	1	1	1	0	1	1	1	0	0	0	10
81	0	1	1	3	0	1	1	0	0	2	0	0	9

--Continued--

Appendix K.3. (Page 2 of 2)

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64	Total	
82	0	6	0	0	1	0	0	0	1	1	0	9	
83	2	3	0	5	2	1	0	2	1	0	0	16	
84	0	1	0	1	1	0	1	0	0	2	0	6	
85	2	3	2	0	1	0	2	1	1	1	1	14	
86	1	1	0	3	1	0	0	1	0	1	0	8	
87	2	3	0	3	0	4	2	4	1	0	0	19	
88	0	1	1	0	3	2	0	1	0	1	1	10	
89	1	3	1	0	2	2	2	0	0	1	0	12	
90	2	1	1	3	1	0	3	0	0	1	1	13	
91	0	2	0	2	0	0	1	0	0	0	1	7	
92	0	3	0	3	1	1	1	1	0	0	1	11	
93	0	1	0	0	1	0	2	1	0	1	0	6	
94	3	2	0	3	0	0	0	0	0	0	1	9	
95	1	3	2	4	0	0	0	2	0	0	0	13	
96	0	1	0	2	2	0	0	0	0	0	0	5	
97	0	1	0	0	1	1	1	1	0	1	0	6	
98	1	3	1	3	1	0	1	0	0	0	3	0	13
99	0	4	3	1	0	1	1	1	2	0	0	0	13
100	2	4	0	2	1	1	2	2	1	2	1	18	
101	0	2	2	1	0	1	0	0	1	0	1	8	
102	1	4	1	2	0	1	1	0	2	1	1	14	
103	0	4	0	2	2	1	0	0	0	1	1	11	
104	0	2	0	1	1	0	1	1	0	0	0	6	
105	0	4	1	1	1	0	0	1	0	0	0	8	
106	2	3	1	1	1	1	0	0	1	0	1	11	
107	1	0	0	2	3	0	2	0	0	1	0	9	
108	0	1	0	0	4	0	0	0	0	0	1	6	
109	2	1	1	0	1	0	2	0	0	1	0	8	
110	0	0	0	1	0	1	2	0	0	0	0	4	
111	0	0	0	1	0	0	0	1	0	1	0	3	
112	0	3	2	0	0	0	1	0	0	0	1	7	
113	0	0	0	1	1	0	1	0	0	0	0	3	
114	0	1	0	0	0	2	1	0	0	1	0	5	
115	0	3	0	0	0	0	0	0	0	0	0	3	
116	1	0	0	0	1	0	0	0	1	0	0	3	
117	0	1	0	0	3	0	0	0	0	1	0	5	
118	0	0	0	0	1	3	0	1	0	0	0	5	
119	0	1	0	0	0	0	0	0	0	0	0	1	
120	0	0	0	0	0	1	0	0	0	0	0	1	
121	0	0	0	0	0	1	1	0	0	0	0	2	
122	0	0	0	1	0	0	0	0	0	0	0	1	
123	0	2	0	0	0	0	0	0	0	0	0	2	
125	0	0	0	1	1	0	0	0	0	0	0	2	
127	0	1	0	0	0	0	0	1	0	0	1	3	
128	0	1	0	0	0	0	0	0	0	0	0	1	
129	0	1	1	1	1	0	0	0	0	0	0	4	
130	0	0	0	0	1	0	0	0	0	0	0	1	
131	0	0	0	0	0	0	0	0	0	1	0	1	
132	0	1	0	0	0	0	0	0	0	0	0	1	
133	0	0	0	1	0	0	0	0	0	0	0	1	
134	0	0	0	1	0	0	0	1	0	1	0	3	
136	0	0	0	1	0	0	0	0	0	0	0	1	
138	0	0	0	0	1	0	0	0	0	0	0	1	
139	0	0	0	1	0	0	0	0	0	0	0	1	
141	0	0	1	0	0	0	0	0	0	0	0	1	
143	0	0	0	1	0	0	0	0	0	0	0	1	
145	0	0	0	0	0	0	0	0	0	0	1	1	
>146	1	4	1	2	0	0	0	0	0	1	0	9	
	32	114	38	113	79	35	63	46	17	49	132	718	

21 Sanak Island

22 Morzhovoi Bay

23 Cold Bay/Belkofski

24 Pavlof/Volcano

25 Beaver/Balboa/Unga

26 Stepovak Bay

27 West Nagai

61 Ivanof Bay

62 Mitrofania Bay

63 Chignik Bay

64 Kujulik Bay

Appendix K.4. Flathead sole lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64		
5	0	0	0	0	0	0	0	0	0	0	1	1	1
6	0	0	0	0	1	0	0	0	0	0	0	0	1
7	0	0	1	0	1	1	0	0	0	3	1	7	
8	0	0	1	0	3	1	0	2	0	0	2	9	
9	2	0	0	2	7	1	1	1	1	1	1	17	
10	2	1	0	2	10	2	7	4	0	4	3	35	
11	2	2	3	4	7	7	14	3	1	4	3	50	
12	4	0	4	11	22	8	18	17	2	11	13	110	
13	1	0	8	8	29	6	21	16	3	11	1	104	
14	1	0	3	11	37	6	11	18	2	14	5	108	
15	4	0	7	12	23	4	14	17	2	16	3	102	
16	7	1	12	13	13	3	20	19	1	25	11	125	
17	1	3	11	18	14	4	15	12	2	28	14	122	
18	2	6	11	14	15	8	14	22	5	24	10	131	
19	1	2	14	15	9	5	17	18	0	11	10	102	
20	4	4	29	15	10	13	21	25	6	18	10	155	
21	8	9	34	13	14	17	23	28	7	19	1	173	
22	7	12	16	25	9	9	34	19	7	20	3	161	
23	5	9	22	28	11	8	25	14	4	24	7	157	
24	7	12	20	45	15	10	19	16	8	32	9	193	
25	10	14	34	39	16	6	9	12	13	13	12	178	
26	14	9	49	38	14	7	11	19	9	19	6	195	
27	14	17	49	42	11	21	14	18	5	19	6	216	
28	24	24	59	50	14	18	13	26	10	24	7	269	
29	27	27	85	70	33	34	20	14	6	17	8	341	
30	33	39	48	89	28	31	31	28	19	28	11	385	
31	32	50	57	94	50	22	35	14	33	48	10	445	
32	29	48	55	104	61	14	39	15	29	58	15	467	
33	33	58	59	103	62	16	39	23	26	56	18	493	
34	21	63	44	107	56	10	35	16	30	55	12	449	
35	16	53	28	64	34	18	38	16	27	56	11	361	
36	17	40	30	53	34	15	22	13	20	37	9	290	
37	14	23	21	49	37	11	22	12	15	45	5	254	
38	6	17	19	33	34	5	16	5	14	37	6	192	
39	9	26	15	20	16	5	4	8	7	31	6	147	
40	5	28	23	16	19	2	3	4	3	25	8	136	
41	6	15	16	24	3	6	8	0	0	28	4	110	
42	3	16	14	21	9	1	2	1	5	26	4	102	
43	3	14	8	10	6	0	0	0	1	16	7	65	
44	1	4	4	9	1	2	1	0	1	9	3	35	
45	0	6	5	9	2	0	1	1	0	6	2	32	
46	1	5	3	4	1	0	0	0	0	0	0	14	
47	0	2	1	4	1	0	0	0	0	2	1	11	
48	0	2	1	1	2	0	0	0	0	0	0	6	
49	0	0	1	1	0	0	0	0	0	0	1	3	
50	0	0	0	2	0	0	0	0	0	0	0	2	
51	0	0	0	1	0	0	1	0	0	0	0	2	
52	0	2	0	0	0	0	0	0	0	0	0	2	
53	0	0	0	1	0	0	0	0	0	0	0	1	

21 Sanak Island
22 Morzhovoi Bay
23 Cold Bay/Belkofski

24 Pavlof/Volcano
25 Beaver/Balboa/Unga
26 Stepovak Bay

27 West Nagai
61 Ivanof Bay
62 Mitrofania Bay

63 Chignik Bay
64 Kujulik Bay

Appendix K.5. Walleye pollock lengths from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64	Total	
<9	0	0	0	0	0	0	0	0	0	0	3	3	3
14	0	0	2	0	0	0	0	0	0	0	0	0	2
15	0	0	4	0	0	0	0	0	0	0	0	0	4
16	0	0	11	2	0	0	0	1	0	0	0	0	14
17	0	2	10	5	0	0	0	3	0	1	1	1	22
18	0	0	19	11	0	0	0	4	0	1	2	37	
19	0	2	20	2	1	0	0	4	0	0	5	34	
20	0	0	16	1	1	0	0	1	0	0	1	20	
21	0	0	5	3	0	0	1	0	0	1	0	10	
22	0	0	2	2	0	0	0	0	0	0	0	4	
23	0	0	2	0	0	0	0	0	0	0	0	2	
24	0	0	3	0	0	0	0	0	0	0	0	3	
25	0	0	16	1	0	0	0	0	0	0	0	17	
26	0	0	33	2	0	0	0	0	0	0	0	35	
27	0	2	32	2	0	0	0	0	0	1	1	38	
28	0	6	17	3	2	0	0	0	0	1	0	29	
29	0	13	29	18	7	0	1	1	1	0	0	70	
30	0	26	18	23	8	0	0	0	0	5	0	80	
31	0	45	15	49	13	0	0	2	0	4	0	128	
32	0	48	11	77	14	1	0	3	1	6	0	161	
33	0	49	23	69	13	0	0	0	0	6	0	160	
34	0	40	11	63	16	0	0	3	0	2	0	135	
35	0	23	19	48	8	0	0	2	0	11	0	111	
36	0	11	25	19	10	1	0	1	0	7	0	74	
37	0	4	28	7	7	0	1	0	0	7	0	54	
38	0	2	16	7	4	0	0	0	0	3	0	32	
39	0	0	26	7	1	0	0	0	0	1	0	35	
40	0	1	32	8	5	0	0	2	0	4	0	52	
41	0	2	42	10	3	0	0	0	1	6	0	64	
42	0	2	47	28	4	0	1	0	0	5	0	87	
43	0	7	45	42	7	3	1	0	1	11	0	117	
44	2	10	47	73	11	2	1	2	2	18	1	169	
45	0	8	39	59	11	5	4	0	2	15	0	143	
46	0	5	24	53	10	12	7	0	3	34	0	148	
47	0	10	19	66	5	14	7	7	4	36	2	170	
48	3	8	14	50	11	8	19	13	2	38	0	166	
49	1	12	11	39	18	16	17	8	1	34	0	157	
50	0	28	11	37	15	12	24	18	8	29	7	189	
51	1	29	16	39	20	10	12	21	4	16	1	169	
52	0	41	12	41	24	14	15	19	8	31	4	209	
53	2	50	14	49	26	11	19	23	9	26	7	236	
54	1	60	15	73	27	14	10	17	9	24	8	258	
55	4	51	23	50	28	15	11	21	10	23	9	245	
56	1	40	20	58	22	7	14	23	11	27	5	228	
57	0	32	23	60	33	11	5	24	7	19	5	219	
58	1	18	17	51	12	14	7	25	9	39	6	199	
59	6	19	14	31	19	7	4	18	8	20	3	149	
60	0	17	13	36	10	8	3	14	11	26	2	140	
61	2	9	16	22	4	11	1	10	4	17	7	103	
62	0	2	14	28	12	7	4	3	1	14	0	85	
63	0	1	3	15	3	3	0	9	3	11	0	48	
64	0	6	3	11	1	0	2	3	1	8	1	36	
65	0	2	5	5	0	3	0	4	1	5	2	27	
66	1	0	4	2	0	1	1	1	0	4	0	14	
67	0	1	0	2	0	0	0	2	0	1	0	6	
68	0	0	2	0	0	1	0	1	0	2	0	6	
69	0	0	1	3	0	0	0	0	0	0	0	4	
71	0	0	0	2	0	0	0	0	0	0	0	2	
72	0	1	0	1	0	0	0	0	0	0	0	2	
74	0	0	0	0	0	0	0	0	0	1	0	1	

21 Sanak Island

22 Morzhovoi Bay

23 Cold Bay/Belkofski

24 Pavlof/Volcano

25 Beaver/Balboa/Unga

26 Stepovak Bay

27 West Nagai

61 Ivanof Bay

62 Mitrofania Bay

63 Chignik Bay

64 Kujulik Bay

Appendix K.6. Pacific cod lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64		
7	0	0	0	0	5	0	0	0	0	0	0	0	5
8	0	0	0	0	1	0	1	0	0	0	0	0	2
9	0	0	0	0	0	0	1	0	0	0	0	0	1
18	0	0	0	0	1	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	3	3	3
20	0	0	0	5	0	0	0	0	0	0	4	9	
21	0	0	0	4	1	0	0	0	0	0	0	13	18
22	0	0	0	8	0	0	0	0	0	0	5	13	
23	0	0	0	6	2	0	0	0	0	0	7	15	
24	0	0	0	6	3	0	0	0	0	1	14	24	
25	0	0	0	7	0	0	0	0	0	0	12	19	
26	0	0	0	12	2	0	0	0	0	0	8	22	
27	0	0	0	1	0	0	0	0	0	0	4	5	
28	0	0	0	2	0	0	0	0	0	0	2	4	
29	0	0	0	4	0	0	0	0	0	0	1	1	6
30	0	0	0	1	1	0	0	0	0	0	2	4	
32	0	0	0	2	2	0	0	0	0	0	0	1	5
33	0	0	0	1	1	0	0	0	0	0	1	3	
34	0	0	0	1	0	0	0	0	1	0	0	2	
35	0	0	0	2	4	0	0	0	0	0	0	6	
36	0	0	0	6	1	0	0	0	0	0	0	0	7
37	0	1	0	6	1	0	0	0	1	0	0	0	9
38	0	0	0	10	0	0	0	0	0	0	0	0	10
39	0	0	2	12	5	0	0	0	0	0	0	0	19
40	0	1	0	14	3	0	1	0	0	0	0	0	19
41	0	2	4	12	4	0	1	0	1	0	1	25	
42	0	0	0	10	3	0	1	0	2	0	0	0	16
43	1	1	0	10	2	0	2	0	2	0	0	0	18
44	0	2	2	13	4	0	2	0	5	1	0	29	
45	1	1	0	11	4	0	4	0	2	0	1	24	
46	0	2	1	9	0	0	5	0	2	1	0	20	
47	0	7	1	13	1	0	4	0	0	0	0	26	
48	0	9	3	11	4	0	2	0	2	0	0	0	31
49	0	11	2	14	3	0	4	0	2	0	1	37	
50	0	8	1	9	5	0	2	0	0	1	0	26	
51	1	4	5	13	6	1	7	0	1	2	0	40	
52	2	8	4	11	5	0	1	0	0	2	0	33	
53	0	8	0	15	2	0	5	0	1	2	0	33	
54	0	6	3	15	3	0	2	1	5	1	0	36	
55	1	7	3	14	1	0	3	1	3	1	1	35	
56	1	9	9	15	5	0	3	0	3	4	0	49	
57	4	11	7	18	4	0	6	1	5	1	0	57	
58	0	13	4	18	2	1	1	1	2	2	0	42	
59	3	4	7	14	2	0	2	2	3	4	1	42	
60	1	7	3	15	5	4	0	0	5	3	2	45	
61	2	7	6	17	6	0	1	3	10	5	0	57	
62	2	5	5	16	3	1	1	0	5	3	1	42	
63	1	8	6	13	3	1	1	1	8	7	1	50	
64	4	3	7	14	1	0	3	0	10	1	0	43	
65	1	2	5	11	4	0	3	0	6	7	0	39	
66	1	5	4	10	3	2	1	2	17	8	0	53	
67	3	7	2	14	1	0	0	1	7	4	1	40	
68	1	5	3	14	5	1	1	1	7	5	0	43	
69	4	2	3	10	2	0	3	0	9	1	1	35	
70	3	1	2	13	2	0	5	3	7	4	1	41	
71	3	0	2	9	2	1	1	4	7	5	0	34	
72	2	1	1	6	3	0	1	1	4	1	1	21	
73	1	1	0	7	1	1	1	0	6	0	0	18	
74	0	1	0	5	1	0	0	0	1	0	1	9	
75	1	1	1	3	3	0	2	0	3	0	0	14	

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Appendix K.6. (Page 2 of 2)

Length (cm)	Area Group												Total
	21	22	23	24	25	26	27	61	62	63	64		
76	0	0	2	2	0	0	1	0	3	0	0	0	8
77	0	2	1	1	2	0	0	1	1	1	0	0	9
78	1	2	0	0	1	0	0	0	0	0	0	0	4
79	0	0	0	1	0	0	0	1	0	0	0	0	2
80	0	0	1	0	0	0	0	0	0	1	0	0	2
81	0	1	1	0	0	0	0	0	0	2	1	5	
82	0	0	0	1	1	0	0	0	0	0	0	0	2
83	0	1	0	0	1	1	0	0	0	0	0	0	3
84	0	1	0	1	0	0	0	0	0	0	0	0	2
85	0	0	0	1	0	0	0	0	0	0	0	0	1
86	0	0	0	1	1	0	0	0	0	1	0	0	3
87	0	0	0	1	1	0	0	0	0	0	0	0	2
89	0	0	0	1	0	0	0	0	0	0	0	0	1
91	0	0	0	0	1	0	0	0	0	0	0	0	1
93	0	0	0	0	1	0	0	0	0	0	0	0	1
95	0	1	0	0	0	0	0	0	0	0	0	0	1
96	0	0	0	1	0	0	0	0	0	0	0	0	1
99	0	0	1	0	0	0	0	0	0	0	0	0	1
100	0	0	0	1	0	0	0	0	0	0	0	0	1
103	0	0	0	0	1	0	0	0	0	0	0	0	1
	45	179	112	540	148	14	84	24	156	83	92	1477	

21 Sanak Island
22 Morzhovoi Bay
23 Cold Bay/Belkofski

24 Pavlof/Volcano
25 Beaver/Balboa/Unga
26 Stepovak Bay

27 West Nagai
61 Ivanof Bay
62 Mitrofania Bay

63 Chignik Bay
64 Kujulik Bay

Appendix K.7. Alaska plaice lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group											Total
	21	22	23	24	25	26	27	61	62	63	64	
24	0	0	0	0	0	0	0	0	0	0	1	1
28	0	0	0	0	2	0	0	0	0	0	0	2
29	0	0	0	1	0	0	0	0	0	0	0	1
30	0	1	0	0	1	0	0	0	0	0	0	2
31	0	0	0	0	1	0	0	0	0	0	0	1
32	0	0	0	0	2	0	0	0	0	0	1	3
33	0	0	0	1	2	0	0	0	0	0	0	3
34	0	0	0	0	1	0	0	0	0	0	0	1
35	0	0	0	0	1	0	0	0	0	0	1	2
36	1	0	0	0	3	0	0	0	0	0	0	4
37	0	0	0	0	1	0	0	0	0	0	2	3
38	0	1	1	0	2	0	0	0	0	0	1	5
39	0	0	1	0	1	0	0	0	0	0	0	2
40	0	0	0	1	1	0	0	0	0	0	0	2
41	1	2	1	2	3	2	0	0	0	0	0	11
42	0	4	2	2	2	0	0	0	0	0	0	10
43	0	3	1	2	1	0	0	0	0	0	0	7
44	0	5	2	2	2	1	0	1	0	0	0	13
45	0	1	0	1	0	0	0	0	0	0	0	2
46	0	0	1	4	1	0	1	0	0	0	0	7
47	0	3	4	3	0	0	0	0	0	0	0	10
48	0	0	1	4	0	0	0	0	0	0	0	5
49	0	1	0	1	0	0	0	0	0	2	0	4
50	0	3	0	0	1	0	0	0	0	0	0	4
51	0	3	0	1	0	0	0	0	0	0	0	4
52	0	1	1	1	2	0	0	0	0	0	0	5
53	0	5	2	1	0	0	0	0	0	0	0	8
54	1	4	0	0	0	0	1	0	0	0	0	6
55	1	2	0	1	0	0	0	0	0	1	0	5
56	0	2	0	2	0	0	1	0	0	0	0	5
57	0	1	4	2	0	0	0	0	0	1	0	8
58	0	0	3	1	0	1	0	0	0	1	0	6
59	0	0	0	0	0	0	0	0	1	0	0	1
60	0	0	2	0	0	0	0	0	0	0	0	2
61	0	1	0	0	0	0	0	1	0	0	0	2
62	0	1	0	0	0	0	0	0	0	0	0	1
63	0	0	0	0	0	0	0	1	0	0	0	1
	4	44	26	33	30	4	3	3	1	5	6	159

Appendix K.8. Sablefish lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group						Total
	23	24	25	27	61	63	
34	1	0	0	1	0	1	3
35	0	1	0	1	0	2	4
36	0	0	2	1	0	1	4
37	0	1	1	4	1	0	7
38	0	0	2	2	4	0	8
39	0	0	0	3	0	0	3
40	0	0	0	0	1	0	1
41	0	0	0	0	1	0	1
48	0	0	0	1	0	0	1
49	0	0	0	1	0	0	1
	1	2	5	14	7	4	33

23 Cold Bay/Belkofski
24 Pavlof/Volcano
25 Beaver/Balboa/Unga
27 West Nagai
61 Ivanof Bay
63 Chignik Bay

Appendix K.9. Northern rock sole lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group											Total
	21	22	23	24	25	27	61	62	63	64		
≤10	0	0	0	3	0	0	0	0	0	1	4	4
11	0	0	0	0	1	1	0	0	0	4	6	
12	0	0	0	0	0	0	0	0	0	7	7	
13	0	0	0	0	2	0	0	0	0	16	18	
14	0	0	0	0	0	0	0	0	0	14	14	
15	0	0	0	0	2	0	0	0	0	3	5	
16	0	0	0	0	3	0	0	0	0	4	7	
17	0	0	0	0	1	0	0	0	0	5	6	
18	0	0	0	1	2	0	0	0	0	5	8	
19	0	0	0	0	1	0	0	0	0	1	2	
20	0	0	0	0	1	0	0	0	0	4	5	
21	0	0	0	1	1	0	0	0	0	3	5	
22	0	0	0	0	2	0	0	0	0	1	3	
23	0	0	0	0	4	0	0	0	0	3	7	
24	0	0	1	0	0	0	0	0	0	2	3	
25	0	0	1	0	7	0	0	0	0	2	10	
26	0	2	2	2	2	0	0	0	0	1	9	
27	0	3	3	1	14	0	0	0	0	0	21	
28	0	3	1	2	10	1	0	0	0	0	17	
29	0	1	8	7	22	1	0	0	0	0	40	
30	0	3	9	11	17	1	0	0	0	0	41	
31	0	1	8	16	23	1	0	0	0	0	49	
32	0	5	9	7	14	2	0	0	1	0	38	
33	0	4	10	7	15	5	0	0	0	0	41	
34	0	4	12	9	17	5	0	0	1	1	49	
35	1	3	8	9	13	1	0	0	0	1	36	
36	0	8	11	13	7	3	0	0	0	0	42	
37	0	3	14	13	8	2	0	0	0	0	40	
38	0	4	6	12	5	3	0	0	1	0	31	
39	0	1	10	11	6	6	1	0	0	0	35	
40	0	1	2	8	3	3	0	1	1	0	19	
41	0	1	1	8	0	1	1	0	1	1	14	
>42	0	1	0	2	1	4	4	1	0	0	13	
	1	48	117	143	204	40	6	2	5	79	645	

Appendix K.10. Southern rock sole lengths by area from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Area Group			Total
	25	62	63	
18	2	0	0	2
19	3	0	0	3
20	2	0	0	2
22	1	0	0	1
24	2	0	0	2
27	1	0	0	1
29	3	0	0	3
30	3	0	0	3
32	2	0	0	2
33	5	0	0	5
34	4	0	0	4
35	2	0	1	3
36	2	0	0	2
37	2	0	0	2
39	4	0	0	4
40	4	0	0	4
42	3	0	1	4
43	4	1	0	5
44	3	0	0	3
45	1	0	0	1
47	0	1	0	1
48	1	0	0	1
50	1	0	0	1
	55	2	2	59

- 21 Sanak Island
- 22 Mørzhovoi Bay
- 23 Cold Bay/Belkofski
- 24 Pavlof/Volcano
- 25 Beaver/Balboa/Unga
- 27 West Nagai
- 61 Ivanof Bay
- 62 Mitrofanov Bay
- 63 Chignik Bay
- 64 Kujulik Bay

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Appendix K.11. Miscellaneous fish lengths of skates, flounder, sole, and rockfishes
from the 2001 trawl survey of the Alaska Peninsula Area.

Length (cm)	Bathyraja spp.	Longnose Skate	Big Skate	Starry Flounder	Rex Sole	Butter Sole	English Sole	Dover Sole	Starry Flounder Ak. Plaice Hybrid	Northern Rockfish	Pacific Ocean Perch	Rougheye Rockfish	Light Dusky Rockfish	Spiny Dogfish
10	1	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	1	0	0	0	0	0	2	0	0	0	0	0	0
13	0	0	0	0	0	0	0	1	0	0	0	0	0	0
14	0	0	0	0	0	0	0	3	0	0	0	0	0	0
15	0	0	1	0	0	0	0	4	0	0	0	0	0	0
16	0	0	0	0	0	0	0	9	0	0	0	0	0	0
17	0	0	1	0	0	0	0	5	1	0	0	0	0	0
18	0	0	0	0	0	0	0	10	0	0	0	0	0	0
19	0	0	0	0	0	0	0	20	0	0	0	0	0	0
20	0	0	0	0	0	0	0	25	0	0	0	0	0	0
21	0	0	0	0	0	0	0	35	0	0	0	0	0	0
22	0	0	0	0	0	0	0	51	0	0	0	0	0	0
23	0	0	0	0	0	0	0	37	0	0	0	0	0	0
24	0	0	0	0	0	0	0	44	0	0	0	0	0	0
25	0	0	0	1	0	0	0	33	0	0	0	0	0	0
26	0	0	0	0	0	0	0	24	2	0	0	0	0	0
27	0	0	0	0	0	0	0	44	0	0	0	0	0	0
28	1	0	0	0	0	0	0	39	2	0	0	0	0	0
29	0	0	0	0	0	0	0	50	3	0	0	0	0	0
30	1	0	0	0	0	0	0	60	5	0	0	0	0	0
31	1	0	0	0	0	0	0	35	3	0	0	0	0	0
32	1	0	0	0	0	0	0	51	20	0	0	0	0	0
33	6	0	0	0	0	0	0	36	11	0	0	0	0	0
34	3	0	0	0	0	0	0	43	20	0	0	0	0	0
35	1	0	0	0	3	0	0	37	11	1	1	0	0	0
36	2	0	0	0	3	0	0	39	8	0	0	0	0	0
37	2	0	0	0	3	0	0	38	11	0	0	0	0	0
38	2	0	0	0	3	0	0	9	3	1	1	0	0	0
39	0	0	0	0	4	0	0	6	4	0	0	0	0	0
40	0	0	0	0	5	0	0	6	1	1	2	0	0	0
41	0	0	0	8	0	0	0	3	4	0	0	0	0	0
42	0	0	1	14	0	0	0	0	0	0	0	0	0	0
43	0	0	0	10	1	0	0	1	1	0	0	0	0	0
44	0	0	0	15	2	0	0	2	0	0	0	0	0	0
45	0	0	0	17	6	0	0	0	0	0	0	0	0	0
46	0	0	0	13	2	0	0	0	0	0	0	0	0	0
47	0	0	0	10	2	0	0	0	0	0	0	0	0	0
48	1	0	0	10	3	0	0	0	0	0	0	0	0	0
49	1	0	0	12	0	0	0	0	0	0	0	0	0	0
50	1	0	0	5	0	0	0	0	0	0	0	0	0	0
51	0	1	0	11	0	0	0	0	0	0	0	0	0	0
52	1	0	0	10	1	0	0	1	0	0	0	0	0	0
53	0	0	0	6	0	0	0	1	0	0	0	0	0	0
54	0	0	0	5	1	0	0	1	0	0	0	0	0	0
55	1	0	0	7	1	0	0	2	0	0	0	0	0	0
56	0	0	0	3	0	0	0	0	0	0	0	0	0	0
57	0	0	0	5	0	0	0	0	0	0	0	0	0	0
58	0	0	0	3	0	0	0	0	1	0	0	0	0	0
59	0	0	0	3	0	0	0	0	1	0	0	0	0	0
60	0	0	0	4	0	0	0	0	0	0	0	0	0	0
61	0	0	0	1	0	0	0	0	0	0	0	0	0	0
62	0	1	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	1
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix K.11. (Page 2 of 2)

Length (cm)	Bathyraja spp.	Longnose Skate	Big Skate	Starry Flounder	Rex Sole	Butter Sole	English Sole	Dover Sole	Starry Flounder Ak. Plaice Hybrid	Northern Rockfish	Pacific Ocean Perch	Rougheye Rockfish	Light Dusty Rockfish	Spiny Dogfish
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	1	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	1	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	32	9	72	195	818	112	7	30	2	6	5	141	3	2



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